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Profile Verification System

Jayanth Narlekar Gade
Dakota State University

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PROFILE VERIFICATION SYSTEM

A graduate project submitted to Dakota State University in partial fulfillment of the
requirements for the degree of

Master of Science

in

Information Systems

December, 2011

By

Jayanth Narlekar Gade

Project Committee:

Dr. Ronghua Shan

Dr. Stephen Krebsbach

Dr. Mark Moran



PROJECT APPROVAL FORM

We certify that we have read this project and that, in our opinion, it is satisfactory in scope and quality as a project for the degree of Master of Science in Information Systems.

Student Name: Jayanth Narlekar Gade

Master's Project Title: Profile Verification System

Faculty supervisor: Ronghua Shan Date: 12/7/2011

Committee member: [Signature] Date: 12/7/2011

Committee member: Mark Moran Date: 12/8/11

ACKNOWLEDGMENT

I would like to thank my project faculty member, Dr. Ronghua Shan for giving me excellence guidance to complete this MSIS final project. I would also like to thank my Committee members Dr. Stephen Krebsbach & Dr. Mark Moran for helping me throughout the project. All the courses I learnt at Dakota state University helped me to initiate and complete the project successfully. The MSIS faculty at Dakota state University helped me to learn all the technical concepts required for the project which I used to complete the project in time.

I thank my parents for supporting me at each and every part of life and giving me valuable suggestions when needed.

ABSTRACT

The proposed idea provides a solution in integrating Employer and Immigration department for the purpose of locating Employee and verifying background before recruitment. The application proposes to isolate problems of fake certificates and employment details furnished by candidates.

In the present scenario the concerned employer authorizes legal consultants to provide information about the candidate and verify his credibility on the certificates submitted. The consultants then make a physical call, additionally may send their officers to the specified previous employer and verify the authenticity of the candidate. The status of the investigation is then reported to the organization for them to take a decision on appointment or refusal.

The proposed system ensures that the above tasks can be easily performed by developing web applications for the organization and the immigration department, integrating them to generate candidate's previous employment details. The system requires every organization to be compulsorily registered with the immigration department. The immigration department then creates the database for the company dynamically.

Whenever the company recruits employee for their organization the data is also updated to the immigration department for verification. The status of the verification is generated on the candidate name and a detailed report on his employment and activities related to all the companies are available to the recruiting organization. If the candidate is recruited his new information is updated to the immigration department.

A powerful search engine is designed to locate employment details of an employee. Additionally the company information can also be tracked. The site also assists in identifying foreign nationals employed in that country.

DECLARATION

I hereby certify that this project constitutes my own product, that where the language of others is set forth, quotation marks so indicate, and that appropriate credit is given where I have used the language, ideas, expressions or writings of another.

I declare that the project describes original work that has not previously been presented for the award of any other degree of any institution.

Signed,

Jayanth Narlekar Gade

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1. INTRODUCTION

1.1 RELATED WORK

The application proposes to isolate problems of fake certificates and employment details furnished by candidates. In the present scenario the concerned employer authorizes legal consultants to provide information about the candidate and verify his credibility on the certificates submitted.

The system ensures that the above tasks can be easily performed by developing web applications for the organization and the immigration department, integrating them to generate candidate's previous employment details. The system requires every organization to be compulsorily registered with the immigration department. The immigration department then creates the database for the company dynamically.

Whenever the company recruits employee for their organization the data is also updated to the immigration department for verification. The status of the verification is generated on the candidate name and a detailed report on his employment and activities related to all the companies are available to the recruiting organization. If the candidate is recruited his new information is updated to the immigration department.

1.2 PROBLEM DEFINITION

Implement a system that handles all the tasks of the integrated services and the companies that are registered to manage the employee recruitment with instant verification of his/her previous working experience.

1.3 AIM OF THE PROJECT

To develop a web application which provide a solution in integrating Employer and Immigration department for the purpose of locating Employee and verifying background before recruitment.

2. LITRERY REVIEW

2.1 EXISTING SYSTEM

In the present scenario the concerned employer authorizes legal consultants to provide information about the candidate and verify his credibility on the certificates submitted. The consultants then make a physical call, additionally may send their officers to the specified previous employer and verify the authenticity of the candidate. The status of the investigation is then reported to the organization for them to take a decision on appointment or refusal.

2.2 PROPOSED SYSTEM

The proposed system ensures that the above tasks can be easily performed by developing web applications for the organization and the immigration department, integrating them to generate candidate's previous employment details. The system requires every organization to be compulsorily registered with the immigration department. The immigration department then creates the database for the company dynamically. Whenever the company recruits employee for their organization the data is also updated to the immigration department for verification. The status of the verification is generated on the candidate name and a detailed report on his employment and activities related to all the companies are available to the recruiting organization. If the candidate is recruited his new information is updated to the immigration department. A powerful search engine is designed to locate employment details of an employee. Additionally the company information can also be tracked. The site also assists in identifying foreign nationals employed in that country.

2.3 SYSTEM REQUIREMENTS

SOFTWARE SPECIFICATIONS

Operating System	:	Windows XP/7 etc.
Language	:	JAVA
Web Server	:	Tomcat
Client Side Scripting	:	Java Script
User Interface	:	HTML, CSS
RDBMS/Back End	:	MS-ACCESS

HARDWARE SPECIFICATIONS

Processor Name	:	Pentium-IV or Higher
Monitor	:	VGA, 256 COLORS
RAM	:	256 MB
Hard Disk Capacity	:	30 GB

3. SYSTEM ANALYSIS AND DESIGN

3.1 Introduction

3.1.1 System Analysis

System analysis making the system architecture explicit at an early stage in the system development requires some analysis. Architecture design decision has a profound effect on whether the system can meet critical requirements such as performance, reliability and maintainability.

3.1.2 System Design

System design process involves deciding which system capabilities are to be implemented in software and which in hardware. For many real-time systems embedded in consumer products, such as the system in cell phones, the cost and power consumption of the hardware is critical. Specific processors designed to support embedded systems may be used and, for some systems, special-purpose hardware may have to be designed and built.

The state machine models are a good, language-independent way of representing the design of a real time system and are therefore an integral part of real-time system design methods. The UML supports the development of state models. The Unified Modeling Language is a standard language for writing software blueprints. The UML may be used to visualize, specify, construct, and document the artifacts of software-intensive system.

The UML is only a language and so is just one part of a software development method. The UML is process independent although optimally it should be used in a process that is use case driven, architecture-centric, iterative, and incremental.

3.1.3 Building Blocks of the UML

The vocabulary of the UML encompasses three kinds of building blocks:

1. Things
2. Relationships

3. Diagrams

Things in UML

1. Structural Things: - Structural things are the nouns of UML models. These are the mostly static parts of a model, representing elements that are either conceptual or physical. In all, there are seven kinds of structural things.

Class: - A class is a description of a set of objects that share the same attributes, operations, relationship, and semantics. A class implements one or more interfaces. Graphically, a class is rendered as a rectangle, usually including its name, attributes, and operations as shown below figure 3.1.

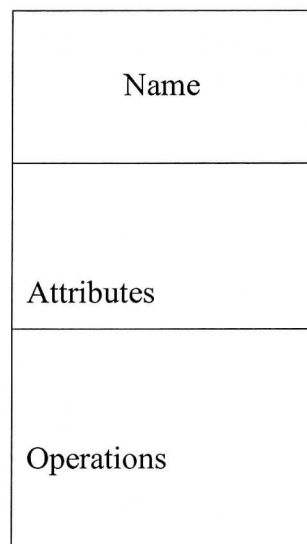


Figure 3.1: Class Diagram

Interface: - An interface is a collection of operation that specifies a service of a class or component. Graphically, an interface is rendered as a circle together with its name as shown in below figure3.2

Collaboration: - It defines an interaction and is society of roles and other elements that work together to provide some cooperative behavior that's bigger than the sum of all elements. Graphically, collaboration is rendered as an ellipse with dashed lines, usually including only its name, as in figure3.3

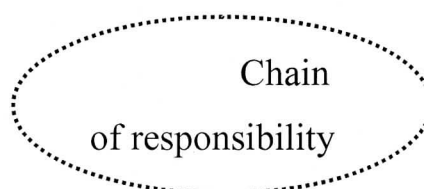


Figure 3.3: Collaboration

Use case: - It is a description of sequence of actions that a system performs that yields an observable result of value to a particular actor. Graphically, a use case is rendered as an ellipse with solid lines, usually including only its name, as in figure3.4

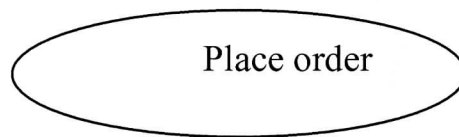


Figure 3.4: Use Case

Activity class: - is a class except that its objects represent elements whose behavior is concurrent with other elements. Graphically it is represented just like a class but with heavy lines as shown in below figure3.5

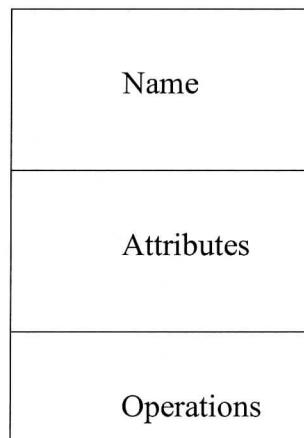


Figure 3.5: Active Class

Component: - is a physical and replaceable part of a system that confirms to provide the realization of a set of interfaces. Graphically, a component is rendered as a rectangle with tabs including its name as shown in below figure3.6

Figure 3.6: Component

Node: - It is a physical element that exists at run time and represents a computational resource, generally having at least some memory and, often processing capability. A set of

components may reside on a node and may also migrate from node to node. Graphically, a node is rendered as a cube, usually including only its name as shown in below figure 3.7

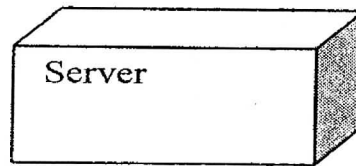


Figure 3.7: Node

2. Behavioral Things: - Behavioral things are the dynamic parts of UML models. These are the verbs of a model, representing behavior over time and space. There are two primary kinds of behavioral things.

Interaction: - It is a behavior that comprises a set of messages exchanged among set objects within a particular context to accomplish a specific purpose. An interaction involves a number of other elements, including messages, action sequences (the behavior invoked by messages), and links (the connection between objects). Graphically, a message is rendered as a directed line, almost always including the name of its operation as shown in 3.8



Figure 3.8: Interaction

State Machine: - It is a behavior that specifies the sequences of states an object or an interaction goes through during its lifetime in response to events, together with its response to those events as shown in below figure 3.9

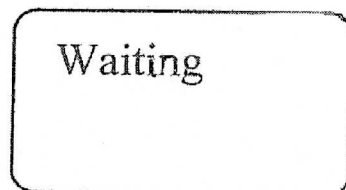


Figure 3.9: State Machine

Grouping Things: - These are the organizational parts of UML model. There is one primary kind of grouping thing, namely, packages. Package is a general-purpose mechanism for

organizing elements into groups. Graphically a package is rendered as a tabbed folder as shown in 3.10

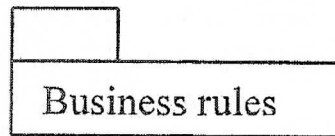


Figure 3.10: Package

Annotational Things: - These are the explanatory parts of UML models. There is one primary kind of annotational thing, called a note

Note: - is simply a symbol for rendering constraints and comments attached to an element or a collection of elements. Graphically a note is rendered as a rectangle with a dog-eared corner as in 3.11

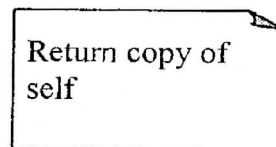


Figure 3.11: Note

2. Relationships in the UML: - There are four kinds of relationships in the UML.

Dependency: - It is a semantic relationship between two things in which a change to one thing may affect the semantics of the other thing. Graphically, it is rendered as a dashed line, possibly directed, and occasionally including a label as shown in 3.12



Figure 3.12: Dependency

Association: - It is a structural relationship that describes a set of link, a link being a connection among objects. Graphically, it is rendered as a solid line, possibly directed, and occasionally including a label as shown in 3.13



Figure 3.13: Association

Generalization: - It is a specialization relationship in which objects of the specialized element are substitutable for objects of the generalized element. Graphically, it is rendered as a solid line with a hollow arrowhead pointing to the parent as shown in below figure 3.14



Figure 3.14: Generalization

Realization: - is a semantic relationship between classifiers, wherein one classifier specifies a contract that another classifier guarantees to carry out. Graphically, it is rendered as a cross between a generalization and dependency relationship as shown in below figure 3.15



Figure 3.15: Realization

3. Diagrams in the UML

Class Diagram: - A class diagram shows set of classes, interfaces, and collaborations and their relationships. Class diagrams address the static design view of a system.

Use Case Diagram: - Shows a set of use cases and actors and their relationships. Use case diagrams address the static use case view of a system.

Sequence Diagram: - It is a kind of interaction diagrams. Sequence diagram is an interaction diagram that emphasizes the time-ordering of messages.

Activity Diagram: - It is a special kind of a state chart diagram that shows the flow from activity to activity within a system. Activity diagrams address the dynamic view of a system.

3.2 Design principles

- The most important principle is to carefully determine the purposes and goals.
- The nature and substantive content of the system should be based upon its purposes.
- Use high level languages which were object oriented, reliable and robust.
- Determine the problem before specifying the requirements.
- After the requirements are agreed upon we must examine a variety of architectures and algorithms.
- Don't test your own software.
- The architecture and design elements should be carefully selected to serve the intended purpose.
- Project must select a process that makes the most sense for the project.
- The software structure which we are going to develop should be as close as possible to the real world structure. Use CASE tools, object oriented methods to minimize intellectual distance.
- Analysis causes for errors.
- Easier to make a working program run faster than it is to make program work.
- Inspecting the detailed design and code is much better way to find errors than testing.
- The architectures, components and specification techniques we use must accommodate change.
- Design without document is not a design.
- A well designed system should provide an easy-to-use navigation system.

3.3 Waterfall Process Model:

The software process model is an abstract representation of a software process. Each process model represents a process from a particular from perspective, and thus provides only partial information about that process. In this project the water fall model is being used. It

focuses the activities like specification, development, validation, evolution and represents them as separate process phases.

3.3.1 Requirements analysis and definition

The system's services, constraints and goals are established by consultations with system users. They are then defined in detail and serve as a system specification.

3.3.2 System analysis and software design

The systems design process partitions the requirements to either hardware or software systems. It establishes overall system architecture. Software design involves identifying and describing the fundamental software system abstractions and their relationships.

3.3.3 Implementation and unit testing

During this stage, the software design is realized as a set of programs or program units. Unit testing involves verifying that each unit meets its specification.

3.3.4 Integration and system testing

The individual program unit or programs are integrated and tested as a complete system to ensure that the software requirements have been met. After testing, the software system is delivered to the customer.

3.3.5 Operation and maintenance

Normally this is the longest life-cycle phase. The system is installed and put into practical use. Maintenance involves correcting errors which were not discovered in earlier stages of

The life cycle, improving the implementation of system units and enhancing the system's services as new requirements are discovered.

Development Cycle

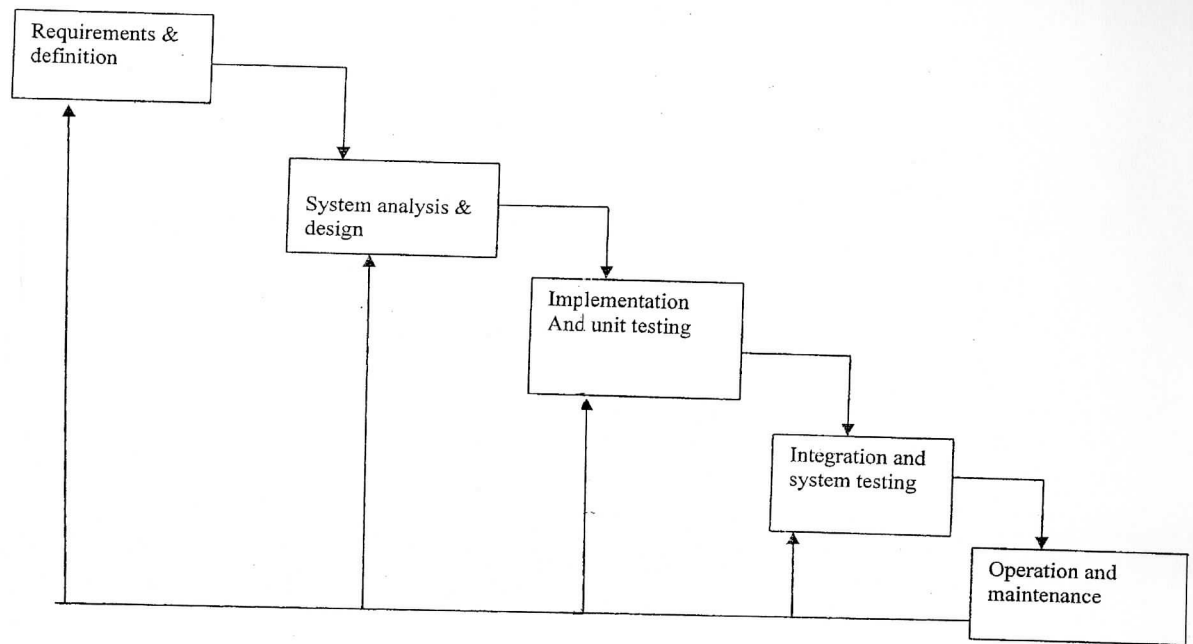


Figure3.16: Diagram for Waterfall Process Model

3.4. Database Design

Database design plays an important role to achieve the scalability of an application. The size of the database should be analyzed properly before actually implementing the project because the project may fail if the database design requirements are not met.

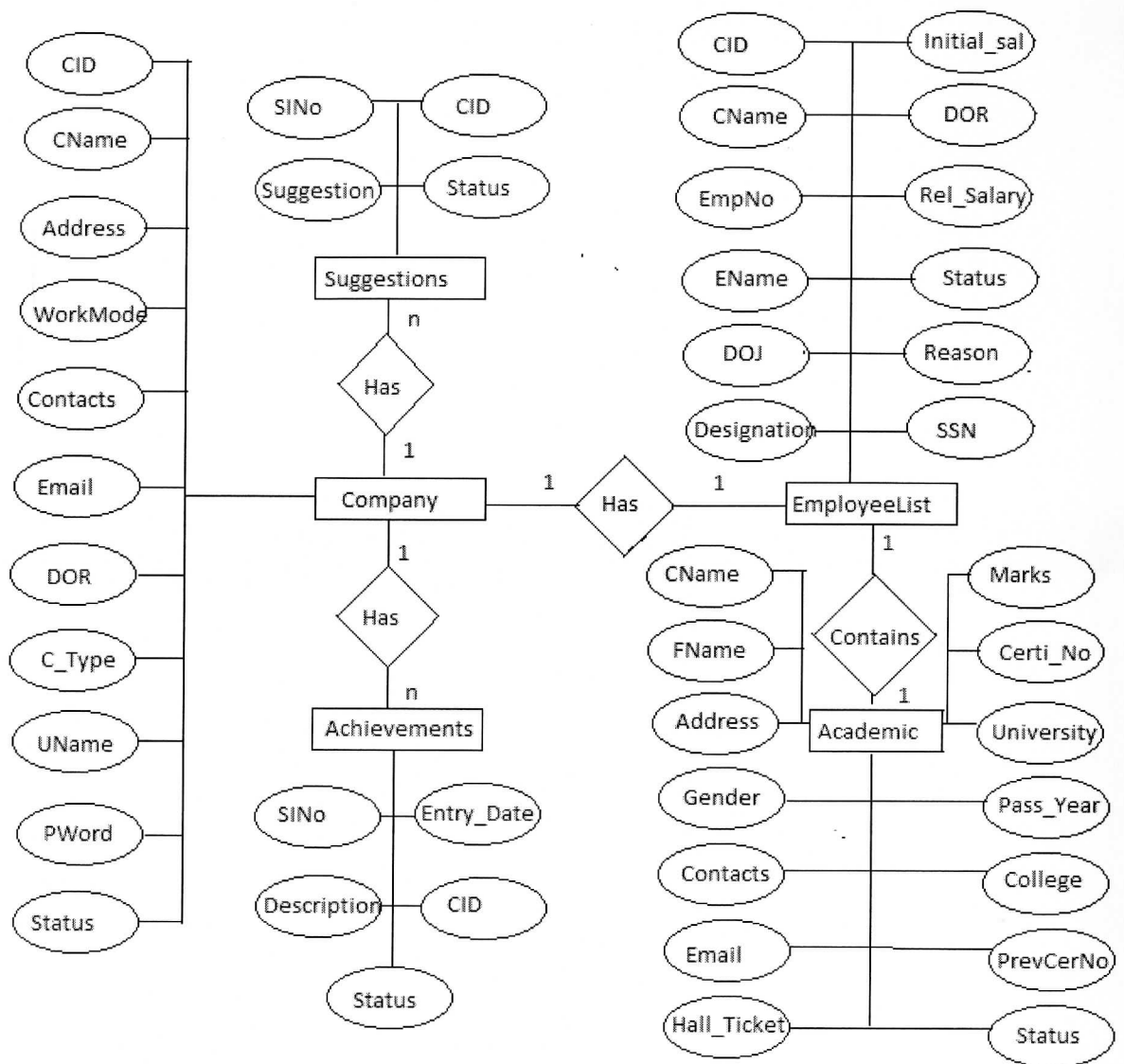
Business Rules

The project is based on the Background information of the employees. The employee details include the First Name, Last Name, Social Security number, mailing address, phone number, email address, etc.

The technical rules for the project which must be considered are listed below.

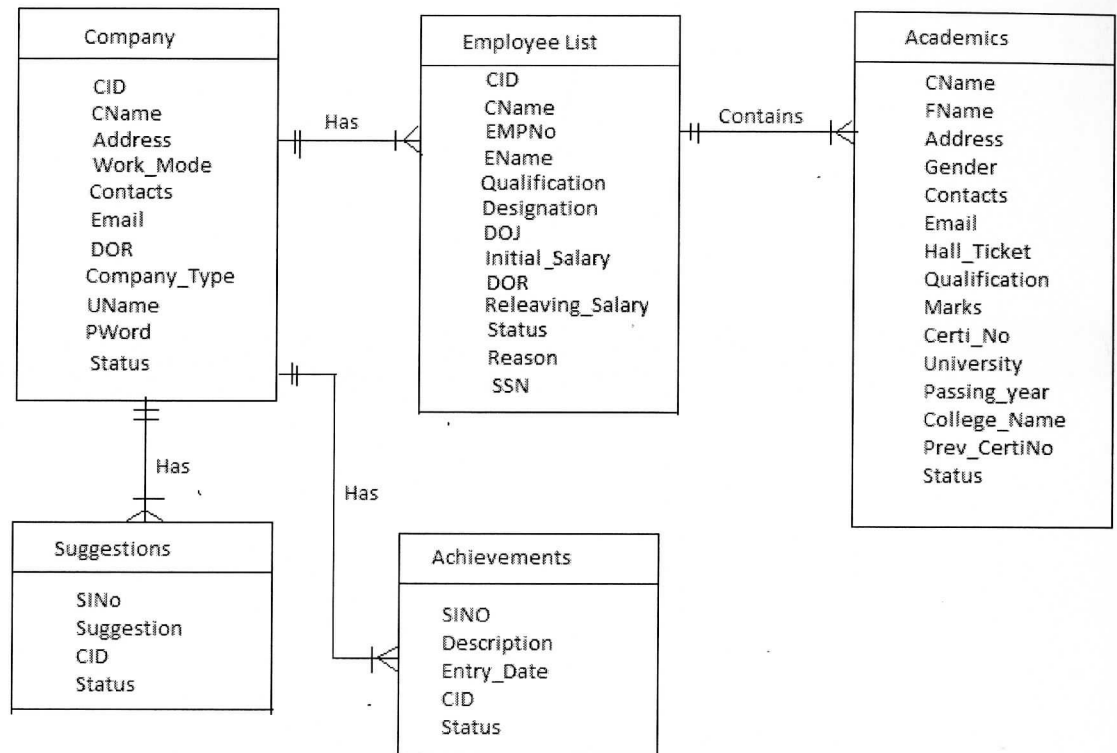
- (i) The system must have the details of first name, last name and middle initial in separate blocks.
- (ii) The punctuation marks used in the process must be restricted to very few like hyphen and apostrophe and period.
- (iii) A data element must be declared in the project to store the address. Street name, house number and others must be specified within the data element.
- (iv) City/Province/State must be included within the data element where the punctuation marks are essentially checked.
- (v) All employees should have the personal and academic details entered in the system.

Entity-Relationship Diagram



ER Diagram

Relational Schema



Relational Schema

Data Dictionary

Table Name: Company

Field Name	Datatype	Constraint
CID	Numeric(18,0)	Primary Key
CName	Nchar(100)	Not Null
Address	Nchar(150)	Not Null
Work_Mode	Nchar(100)	Not Null
Contacts	Nchar(25)	Not Null
Email	Nchar(30)	Not Null
DOR	DateTime	Not Null
Company_Type	Nchar(20)	Not Null
UName	Nchar(20)	Not Null
PWord	Nchar(20)	Not Null
Status	Nchar(20)	Not Null

Table Name: EmployeeList

Field Name	Data Type	Constraint
CID	Numeric(18,0)	Foreign Key
CName	Nchar(50)	Not Null
EmpNo	Numeric(18,0)	Foreign Key
EName	Nchar(50)	Not Null
Qualification	Nchar(50)	Not Null
Designation	Nchar(30)	Not Null
DOJ	DateTime	Not Null
Initial_Salary	Numeric(18,2)	Not Null
DOR	DateTime	Not Null
Releaving_Salary	Numeric(18,2)	Not Null
Status	Nchar(20)	Not Null

Reason	Nchar(200)	Not Null
SSN	Numeric(18,0)	Not Null

Table Name: Suggestions

Field Name	Data Type	Constraint
SINo	Numeric(18,0)	Primary Key
Suggestion	Nchar(500)	Not Null
CID	Numeric(18,0)	Foreign Key
Status	Nchar(10)	Not Null

Table Name: Academic

Field Name	Data Type	Constraint
CName	Nchar(30)	Not Null
FName	Nchar(30)	Not Null
Address	Nchar(200)	Not Null
Gender	Nchar(10)	Not Null
Contacts	Nchar(30)	Not Null
Email	Nchar(30)	Not Null
Hall_Ticket	Nchar(20)	Not Null
Qualification	Nchar(30)	Not Null
Marks	Numeric(18,2)	Not Null
Certi_No	Nchar(15)	Primary Key
University	Nchar(50)	Not Null
Passing_Year	Numeric(18,0)	Not Null
College_Name	Nchar(100)	Not Null
Prev_Certi_No	Nchar(15)	Not Null
Status	Nchar(20)	Not Null

Table Name: Achievements

Field Name	Data Type	Constraint
SINo	Numeric(18,0)	Primary Key
Description	Nchar(500)	Not Null
Entry_Date	DateTime	Not Null
CID	Numeric(18,0)	Foreign Key
Status	Nchar(10)	Not Null

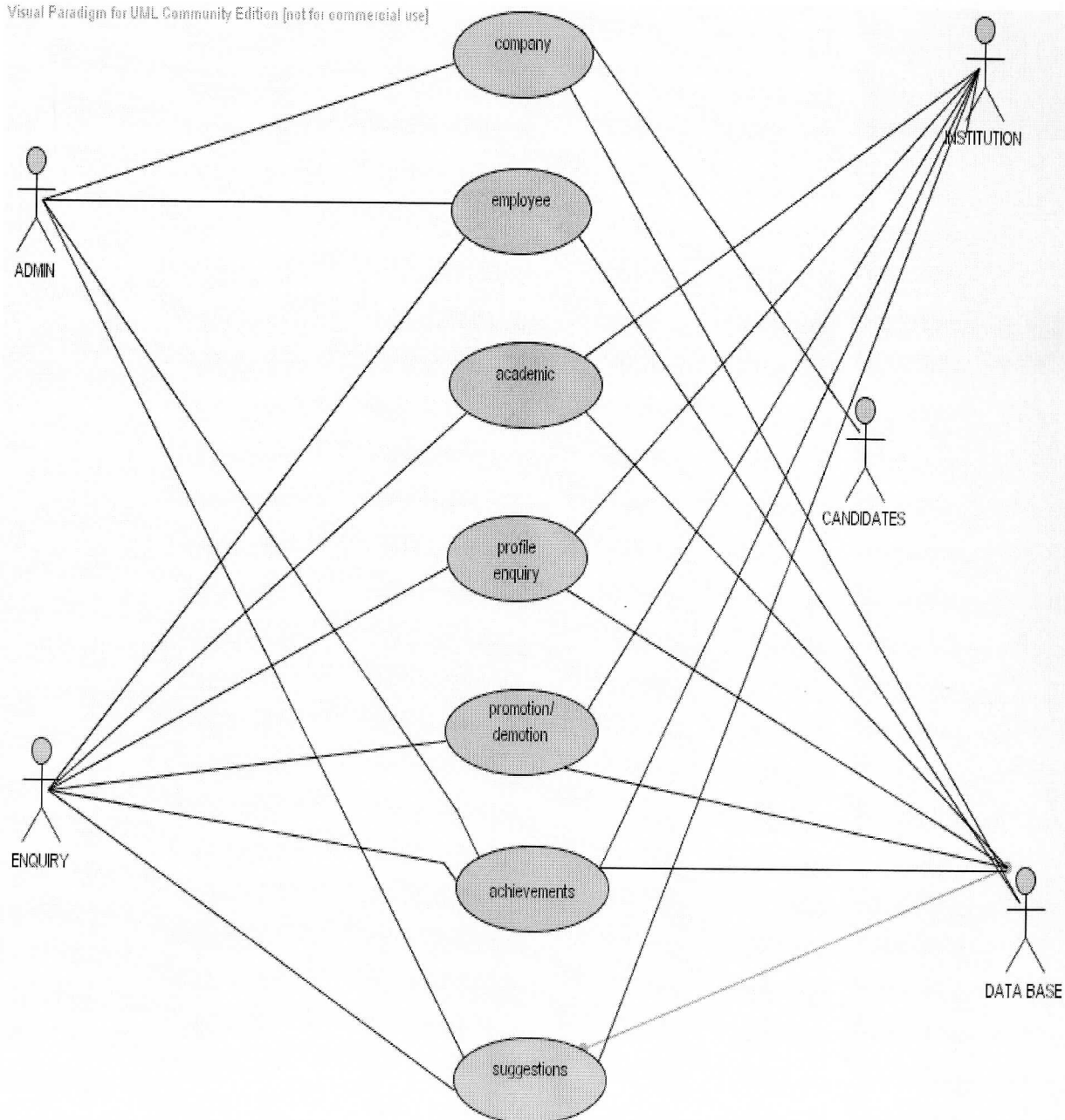
Table Name: C_[CID]

Field Name	Data Type	Constraint
EmpNo	Numeric(18,0)	Not Null
EName	Nchar(50)	Not Null
Qualification	NChar(50)	Not Null
Designation	Nchar(50)	Not Null
DOJ	DateTime	Not Null
Initial_Salary	Numeric(18,2)	Not Null
DOR	DateTime	Not Null
Releaving_Salary	Numeric(18,2)	Not Null
Status	Nchar(20)	Not Null
Reason	Nchar(500)	Not Null
SSN	Numeric(18,0)	Foreign Key

3.5 USE CASE DIAGRAMS FOR BVS

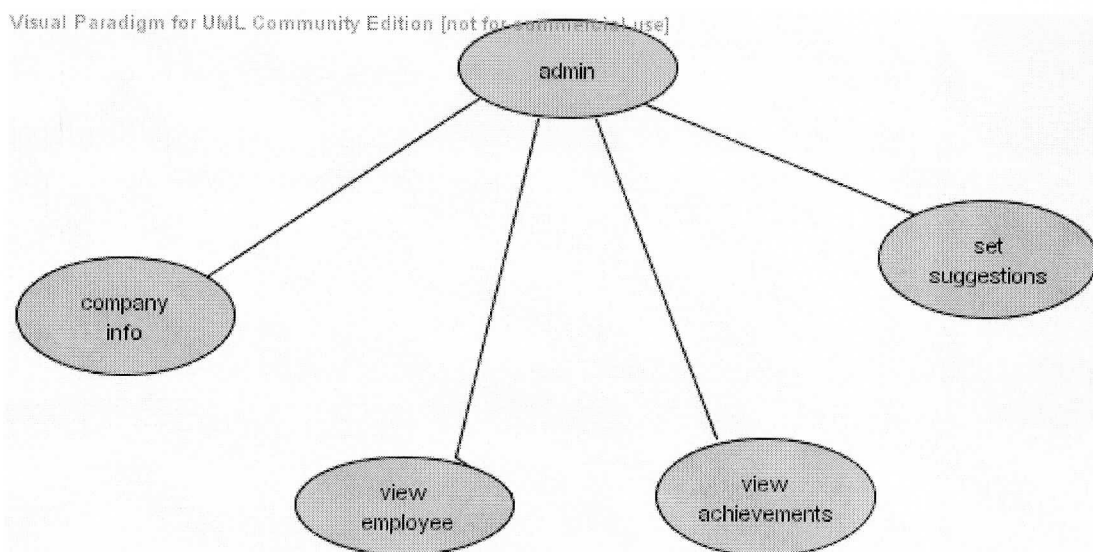
Overall Use case Diagram:

Visual Paradigm for UML Community Edition (not for commercial use)

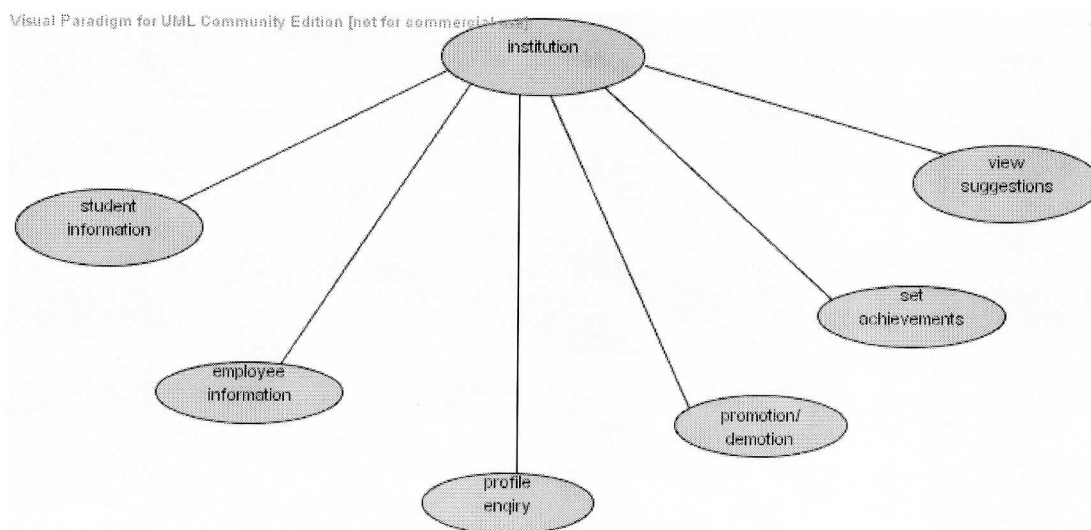


Individual Use case Diagrams:

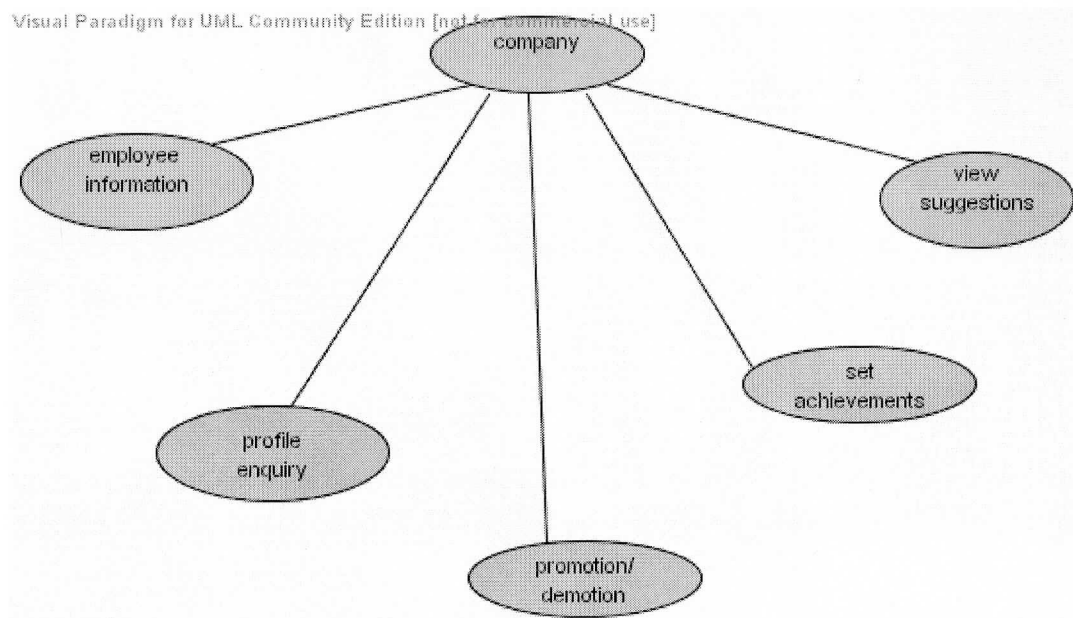
1. Use case for Administrator:



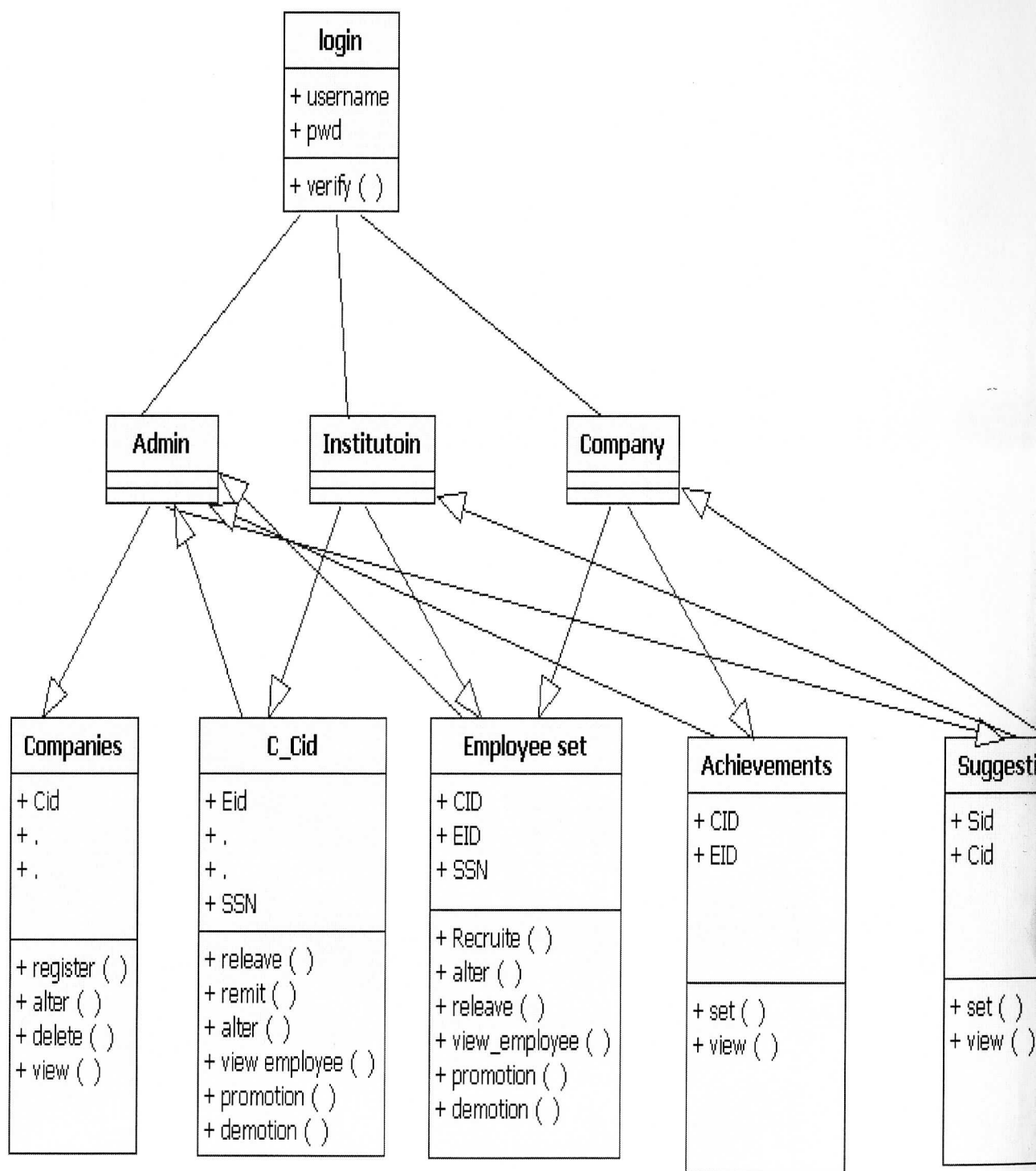
2. Use case for Institution:

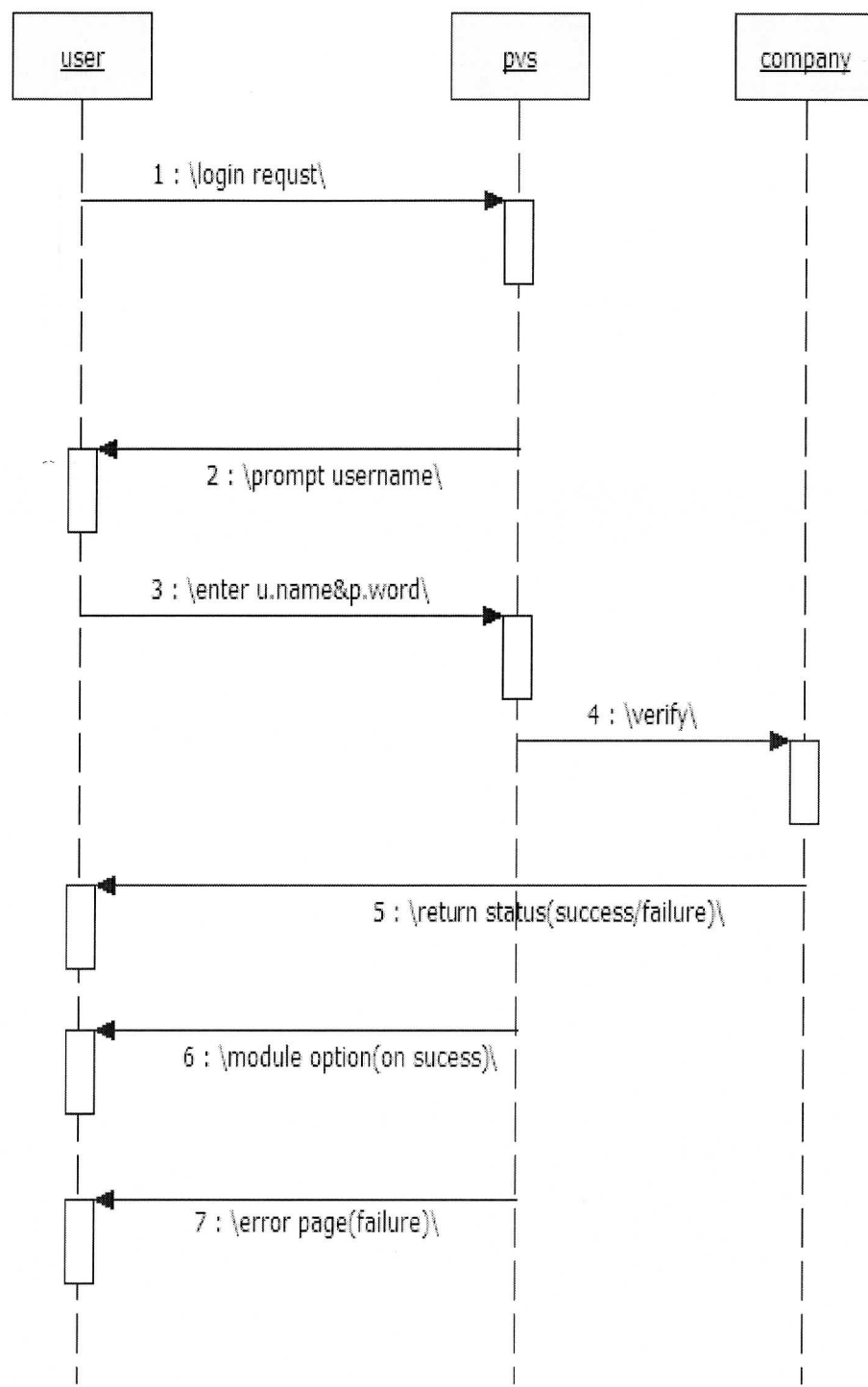


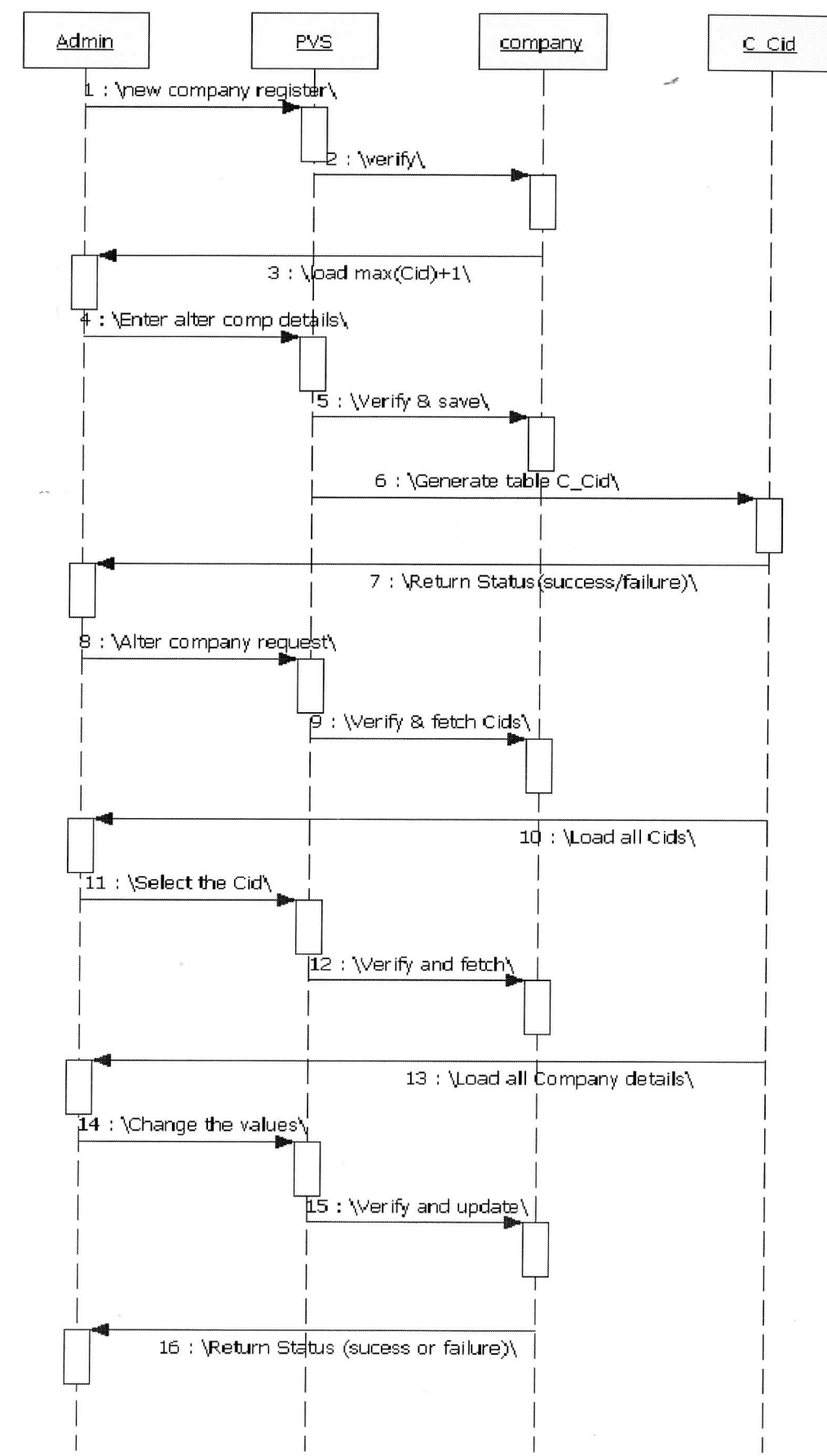
3. Use case for Company:

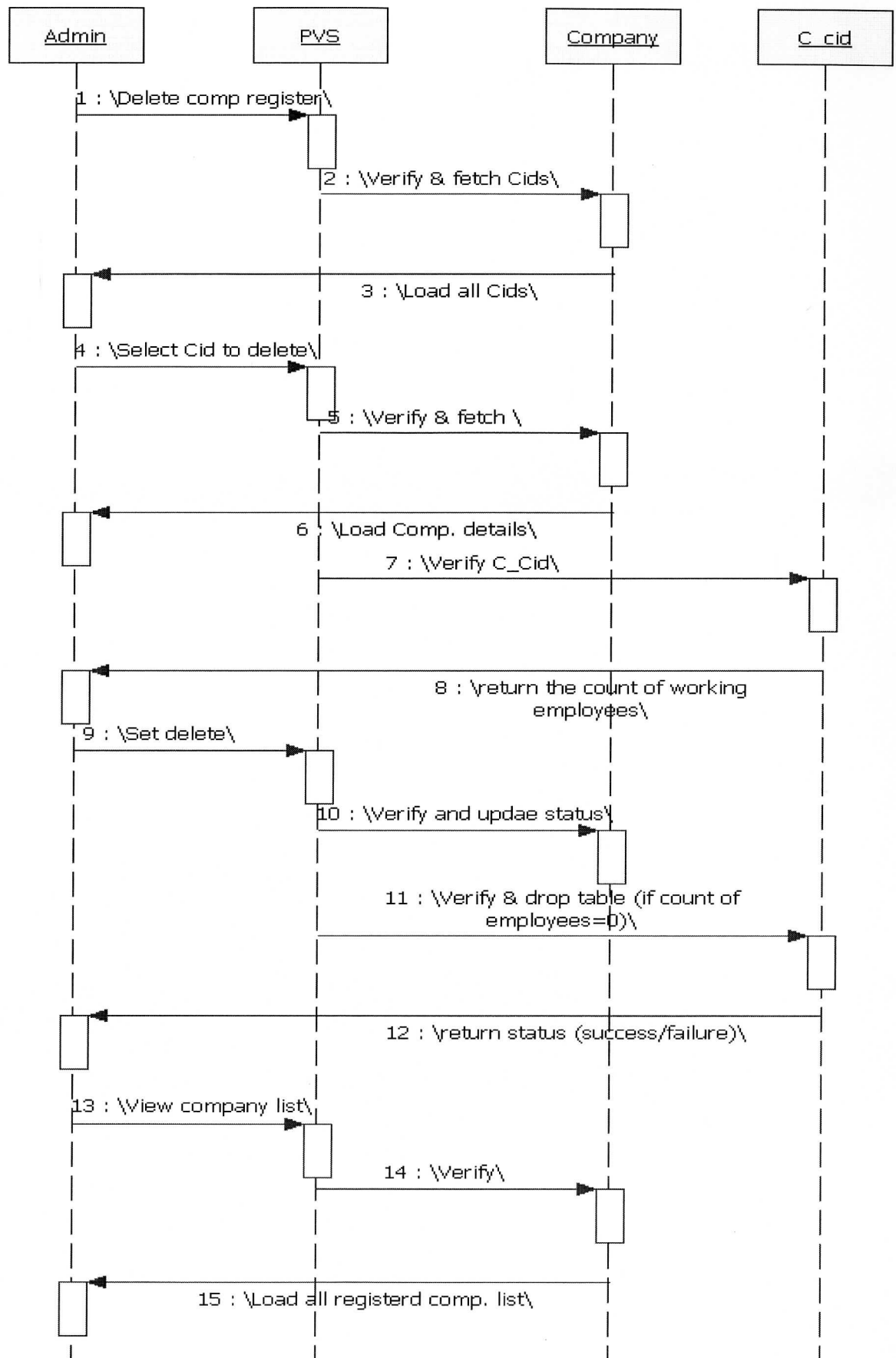


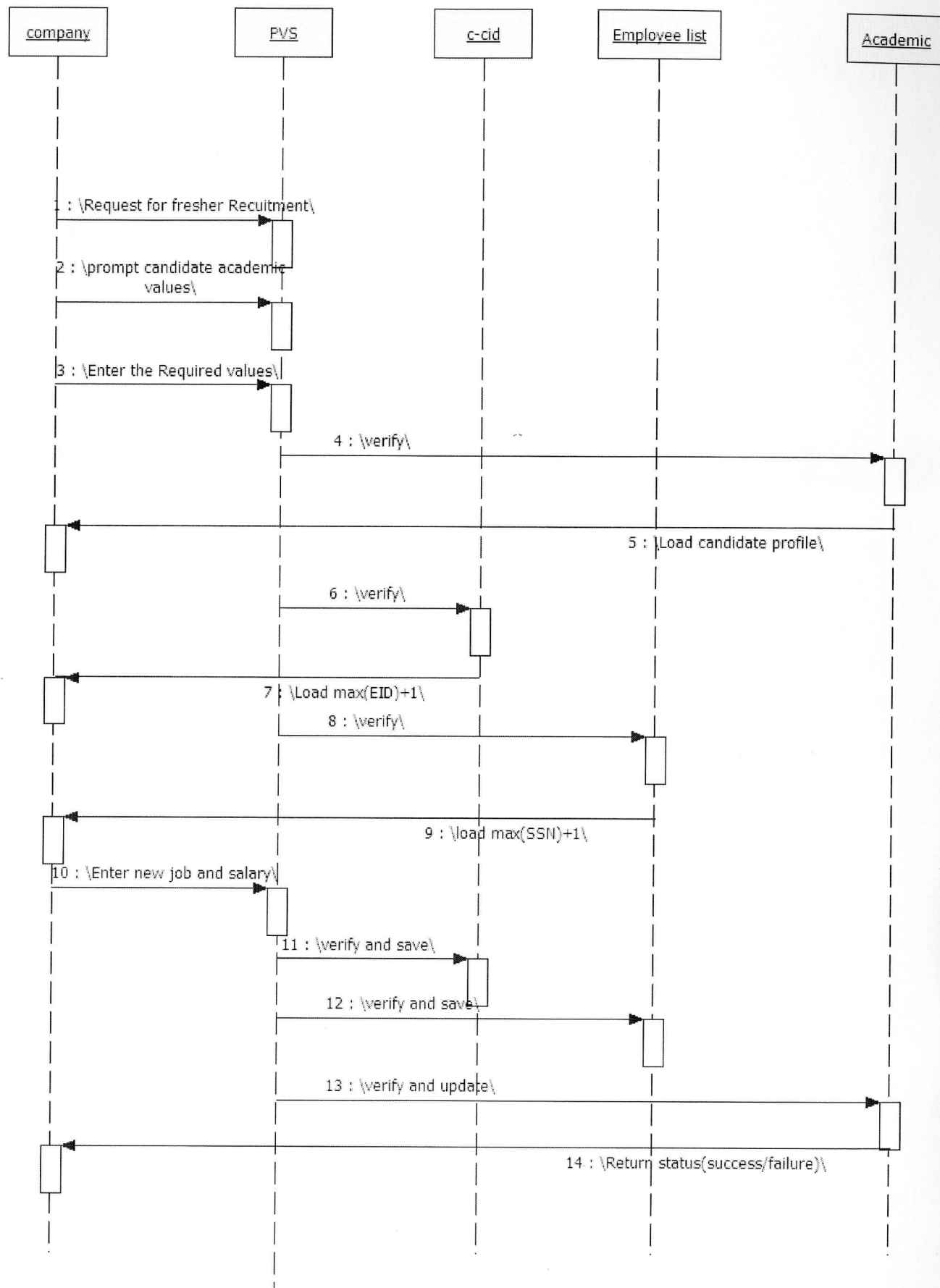
CLASS DIAGRAM FOR BVS

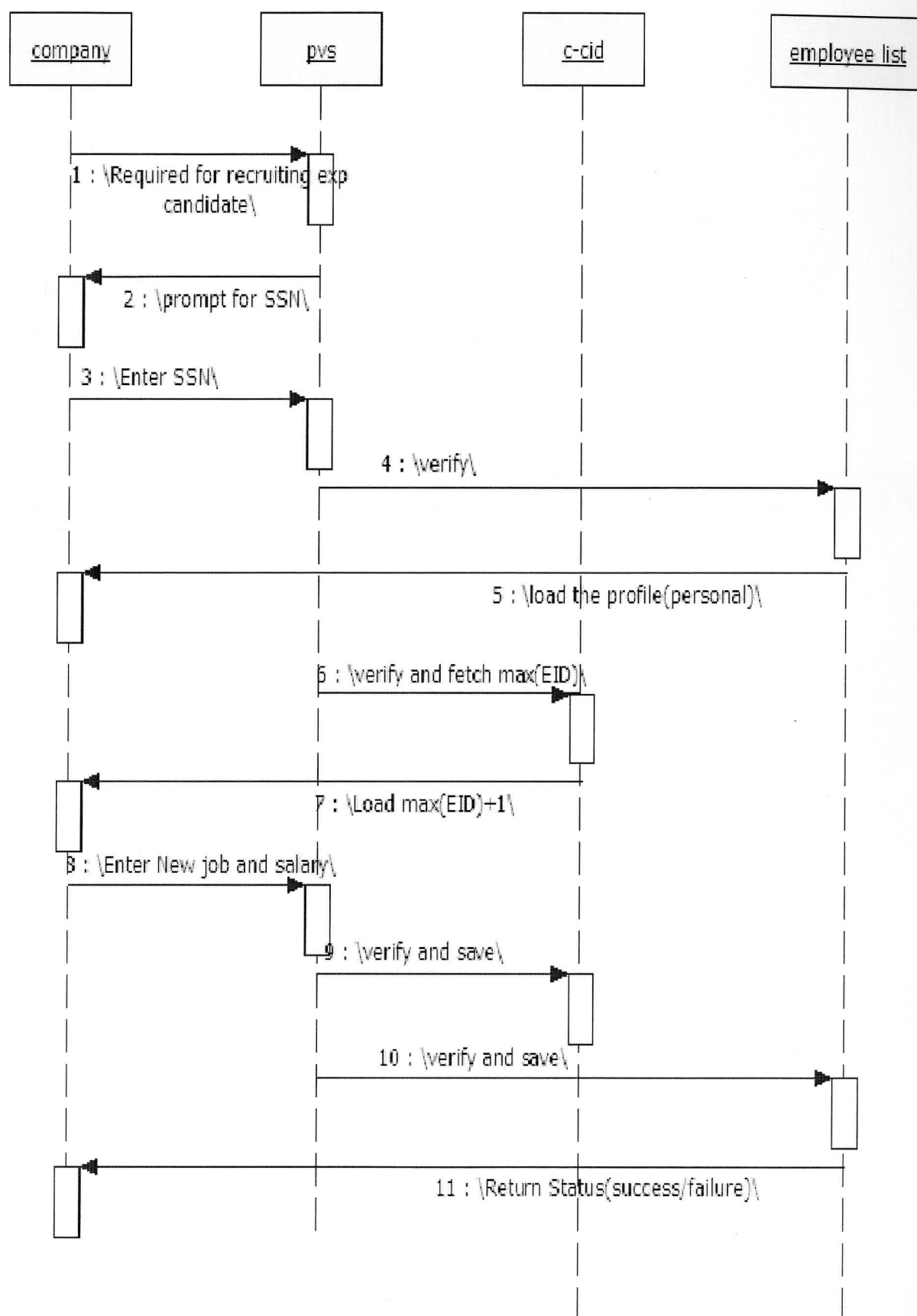


SEQUENCE DIAGRAM FOR BVS

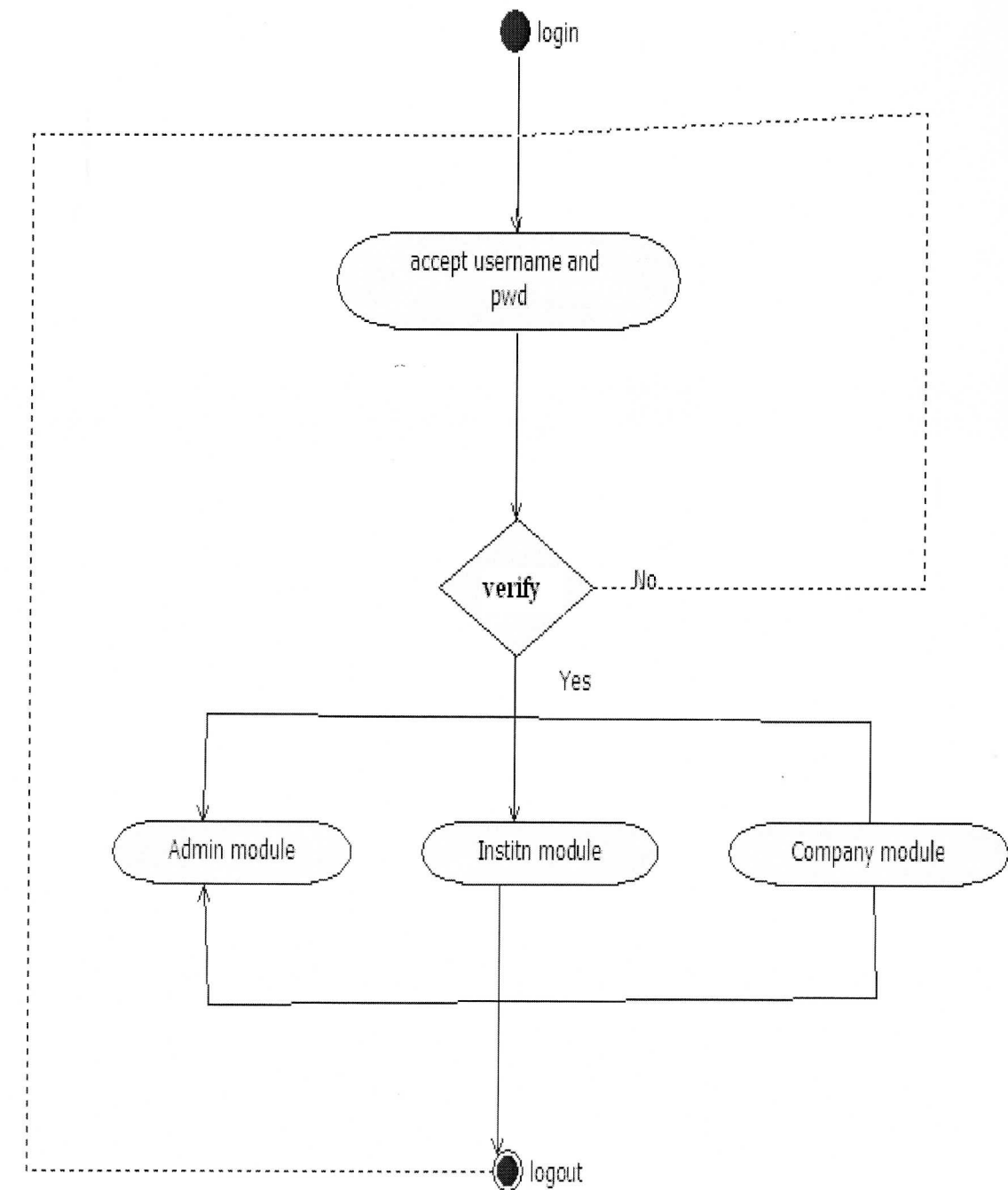








ACTIVITY DIAGRAM FOR BVS



4. IMPLEMENTATION

4.1 INTRODUCTION

System Implementation is the process of having systems personnel check out and put newly developed package into use, train users how to interact with it, install the new application and construct any files of data needed to use the package. While installation the system requirement where the package is going to be installed is to be checked, whether it has the sufficient for the software to run the package. The user must be given the manual regarding the installation and the errors frequently occurred, and how to deal with those errors, and the manner in which to proceed during data entry.

4.2 MODULES

4.2.1 Login module:

This module accepts the username and passwords from the user which on verification passes the control to the appropriate module options.

4.2.2 Administrator:

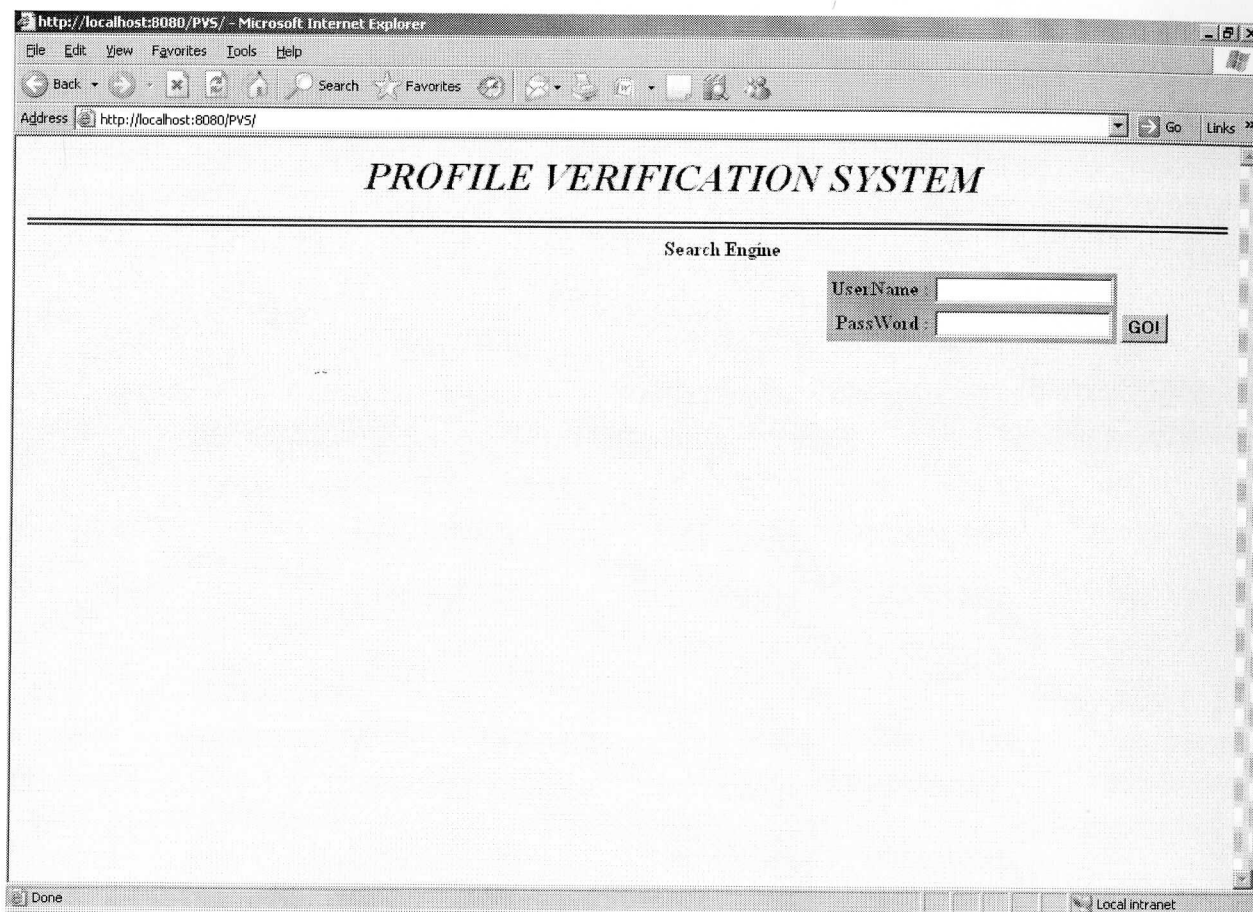
He maintains the information of the registered companies where each company is associated with a unique identity number by using which they can login to perform their transactions. They can also view in list of employees of the specified company. The achievements of the other companies can be viewed by the administrator for which the appropriate suggestions can be set.

4.2.3 Institutions:

These are the educational companies (colleges) where they maintain the information (personal and academic) of the students. They can also recruit the employees (lecturers) into their companies by assigning them with unique employee id and a global id. While recruiting the employees as experience, they can use the global id to verify their past experience information. The information of the promotion and demotions are also tracked by the companies. They set their achievements according to which the administrator can give the appropriate suggestions for them.

4.3 SCREEN SHOTS

Index page:



Index page with Admin Values:

The screenshot shows a Microsoft Internet Explorer window with the address bar set to `http://localhost:8080/PVS/`. The page title is *PROFILE VERIFICATION SYSTEM*. Below the title, there is a section labeled "Search Engine". To the right of this label, there are two input fields: "UserName" with the value "Admin" and "PassWord" with masked characters "•••••". A "GO!" button is located to the right of the password field. The status bar at the bottom indicates "Done" and "Local Intranet".

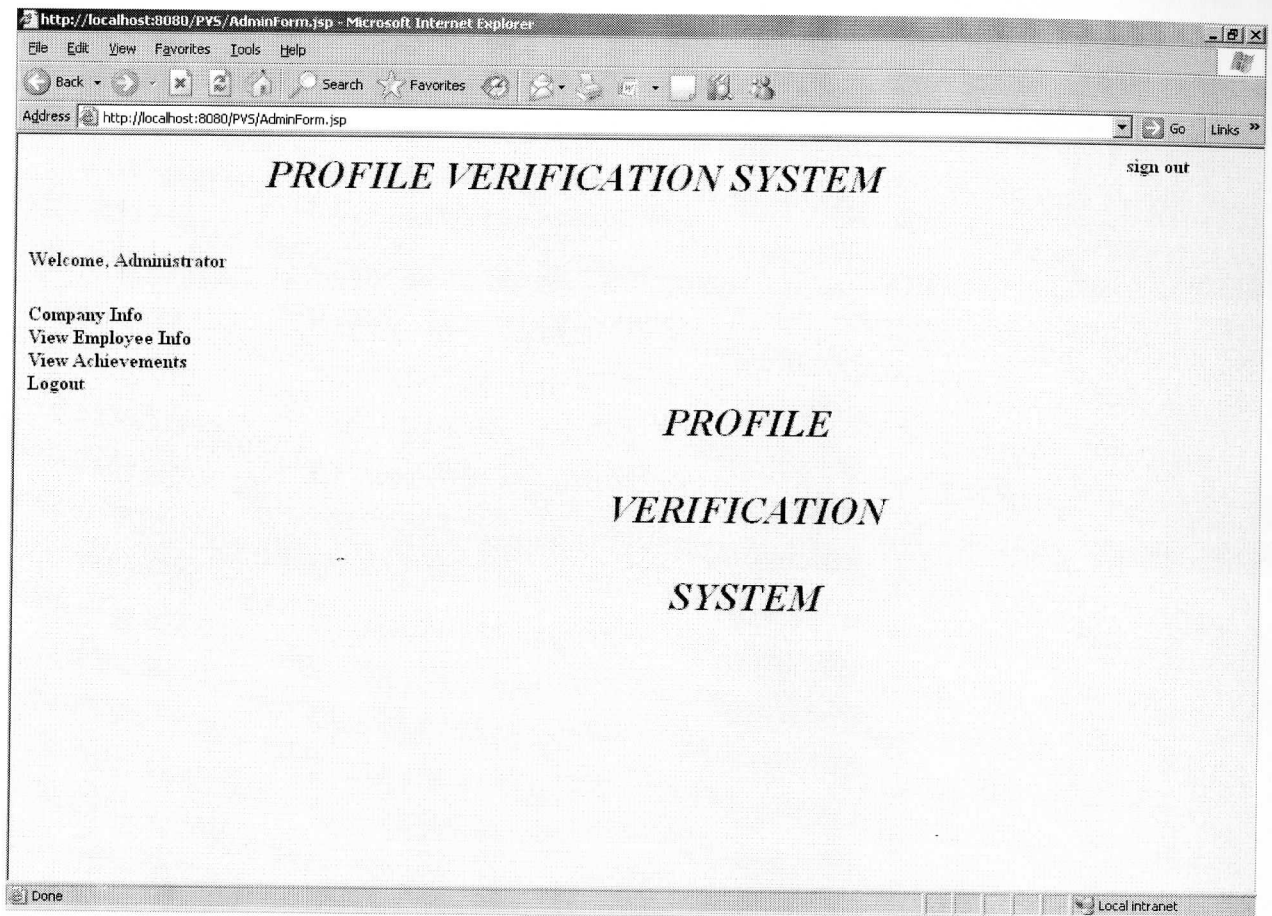
PROFILE VERIFICATION SYSTEM

Search Engine

UserName: Admin

PassWord: ••••• GO!

Done Local Intranet

Administrator Options List:

New Company Information Page:

http://localhost:8080/PVS/AdminForm.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/AdminForm.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, Administrator

New Company
View Companies
Back

NEW COMPANY INFORMATION

Company Id :

Company Name :

Address :

Contacts :

Email :

Work Mode :

Company Type :

Registration Date :

UserName :

PassWord :

Local intranet

New Company page with Values:

http://localhost:8080/PVS/AdminForm.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/AdminForm.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, Administrator

[New Company](#)
[View Companies](#)
[Back](#)

NEW COMPANY INFORMATION

Company Id :

Company Name :

Address :

Contacts :

Email :

Work Mode :

Company Type :

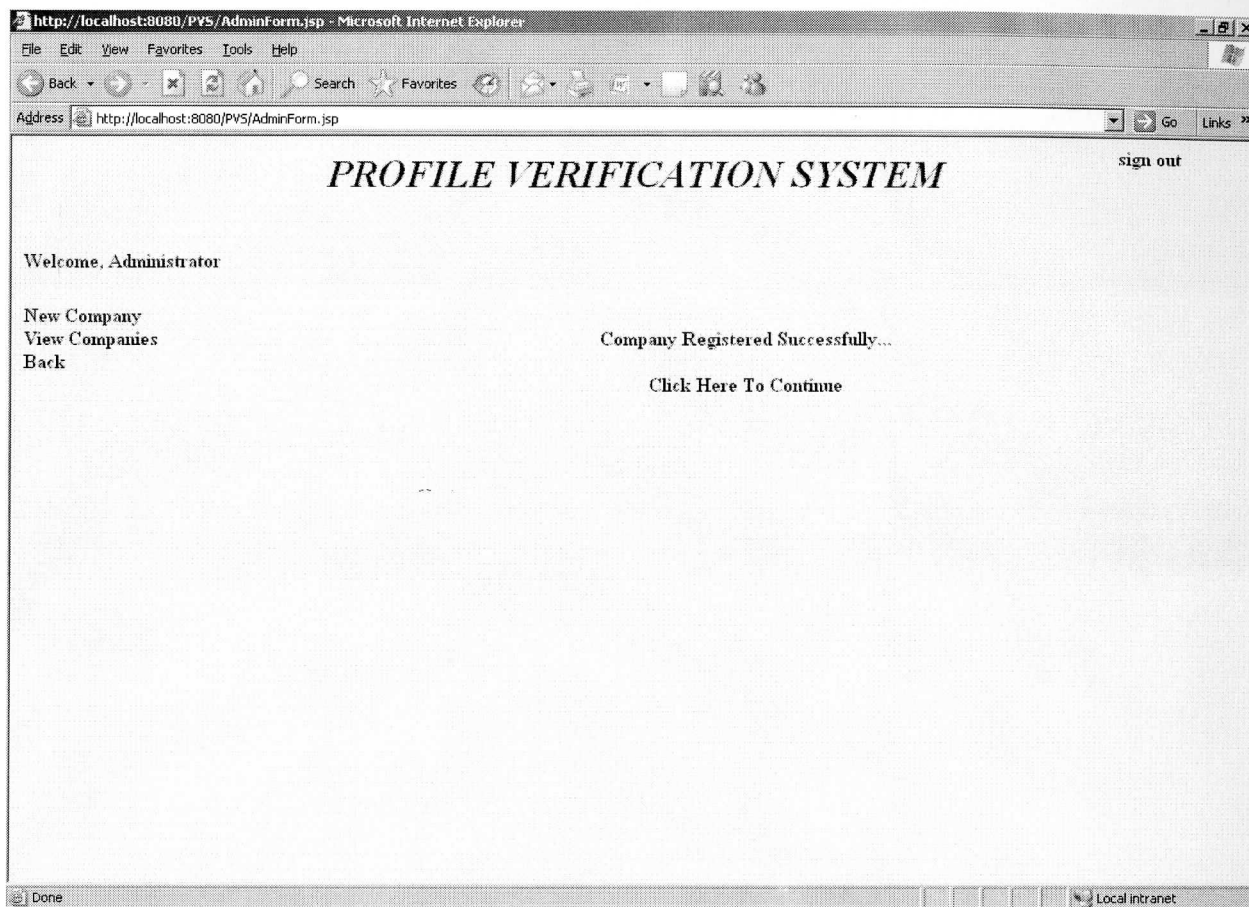
Registration Date :

UserName :

PassWord :

Local intranet

Confirmation Message for New Company Registration:



View Companies List:

http://localhost:8080/PVS/AdminForm.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/AdminForm.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, Administrator

New Company
View Companies
Back

Registered Company Information

Company Id	Company Name	Work Mode			
10001	tcs	softwareservices	View	Edit	Delete
10003	T	T	View	Edit	Delete
10004	SATYAM SOLUTIONS	Training & Development	View	Edit	Delete

[Click Here To Continue](#)

Done Local intranet

Edit Company Page:

http://localhost:8080/PVS/AdminForm.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/AdminForm.jsp Go Links

sign out

PROFILE VERIFICATION SYSTEM

Welcome, Administrator

New Company
View Companies
Back

Company Info. Modification Page

Company Id :

Company Name :

Address :

Contacts :

Email :

Work Mode :

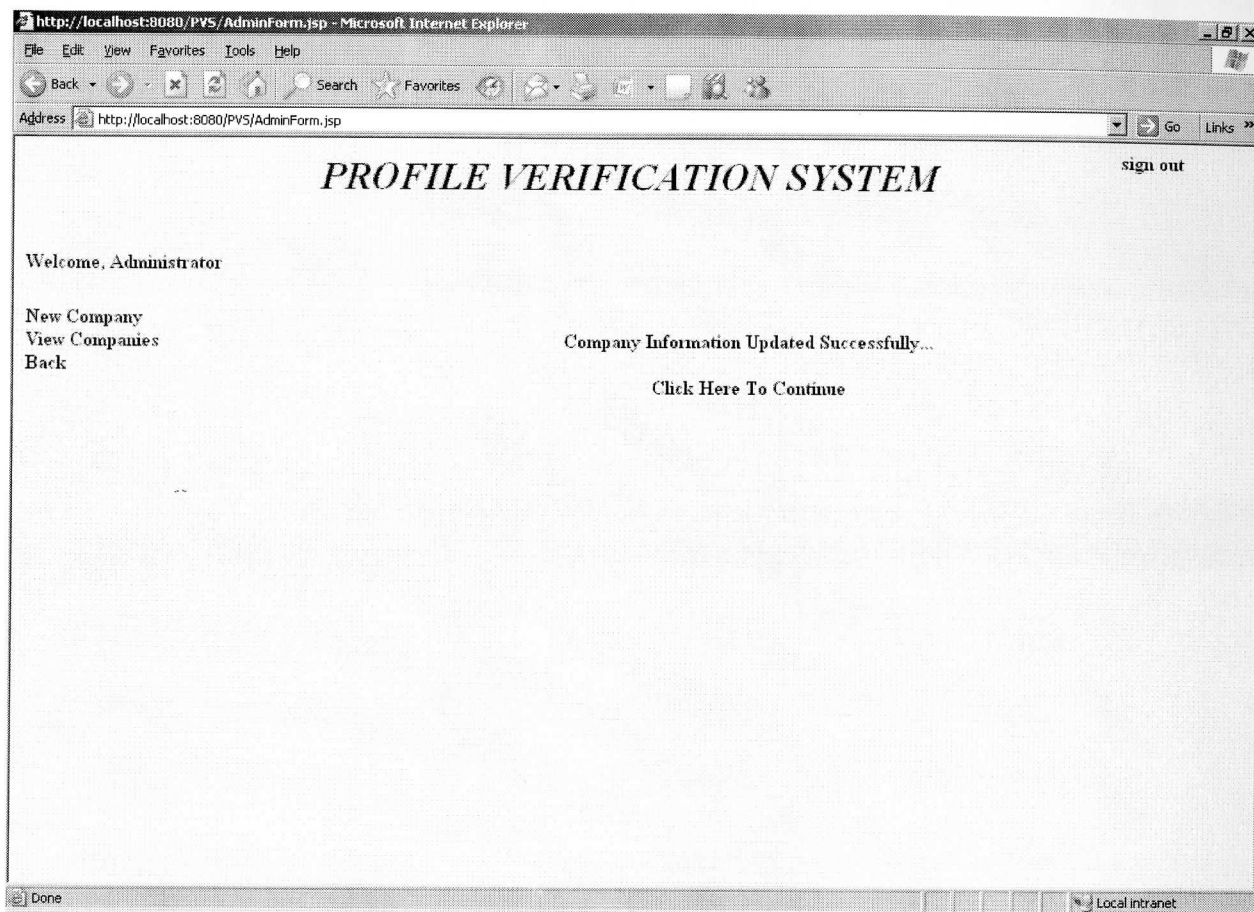
Company Type :

Registered Date :

[Click Here To Continue](#)

Done Local intranet

Company Information Updation Confirmation Page:



View Employees Page:

http://localhost:8080/PVS/AdminForm.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/AdminForm.jsp Go Links

PROFILE VERIFICATION SYSTEM sign out

Welcome, Administrator

Company Info
View Employee Info
View Achievements
Logout

Registered Company Information

Company Id	Company Name	Work Mode	
10001	tcs	softwareservices	View Staff
10003	T	T	View Staff
10004	SATYAM SOLUTIONS	Training & Development	View Staff

[Click Here To Continue](#)

Local intranet

Employee List of Selected Company:

PROFILE VERIFICATION SYSTEM [sign out](#)

Welcome, Administrator

[Company Info](#)
[View Employee Info](#)
[View Achievements](#)
[Logout](#)

Emp No	Employee Name	Designation	Joined Date
1001	mahesh	Programmer	20-Apr-2010
1002	giri	Project Leader	20-Apr-2010

[Click Here To Continue](#)

Done Local intranet

View Achievement Page:

The screenshot shows a Microsoft Internet Explorer window with the address bar displaying `http://localhost:8080/PVS/AdminForm.jsp`. The page title is **PROFILE VERIFICATION SYSTEM**. In the top right corner, there is a **sign out** link. On the left side, a navigation menu lists: **Welcome, Administrator**, **Company Info**, **View Employee Info**, **View Achievements**, and **Logout**. The main content area features a section titled **Registered Company Information** containing a table with the following data:

Company Id	Company Name	Work Mode
<u>10001</u>	tcs	softwareservices
<u>10003</u>	T	T
<u>10004</u>	SATYAM SOLUTIONS	Training & Development

Below the table, there is a link that says **Click Here To Continue**. The status bar at the bottom of the browser indicates 'Local intranet'.

Achievements List for Selected Companies:

The screenshot shows a Microsoft Internet Explorer window with the address bar displaying `http://localhost:8080/PV5/AdminForm.jsp`. The page title is "PROFILE VERIFICATION SYSTEM". In the top right corner, there is a "sign out" link. On the left side, a navigation menu lists: "Welcome, Administrator", "Company Info", "View Employee Info", "View Achievements", and "Logout". The main content area is titled "Company Achievements Information" and contains a table with three columns: "SINo", "Description", and "Entry Date". Below the table, there is a link that says "Click Here To Continue". The status bar at the bottom indicates "Done" and "Local intranet".

PROFILE VERIFICATION SYSTEM sign out

Welcome, Administrator

Company Info
View Employee Info
View Achievements
Logout

Company Achievements Information

SINo	Description	Entry Date
------	-------------	------------

[Click Here To Continue](#)

Done Local intranet

Login path with Institution Values:

http://localhost:8080/PVS/index.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/index.jsp Go Links

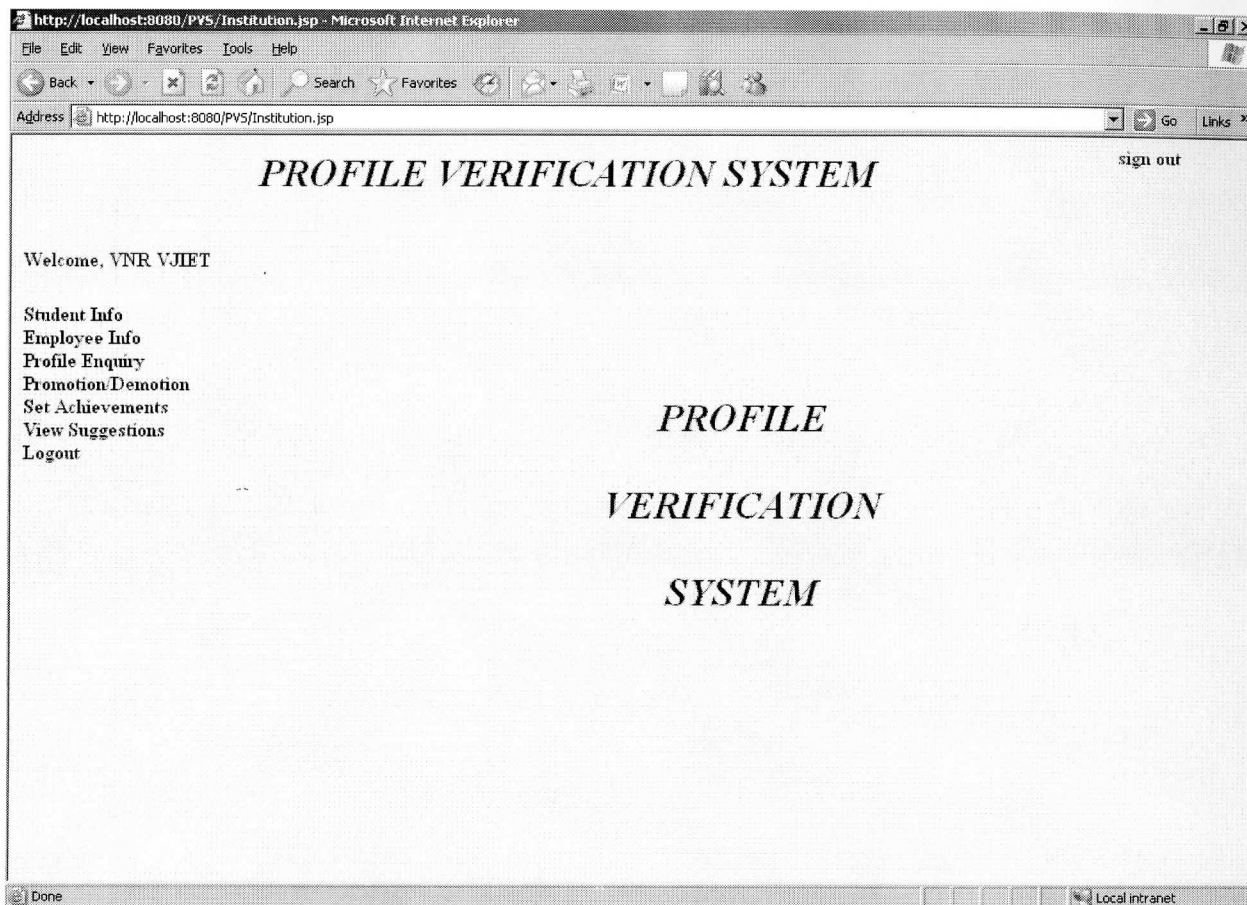
PROFILE VERIFICATION SYSTEM

Search Engine

UserName	<input type="text" value="vnr"/>	
PassWord	<input type="password" value="..."/>	<input type="button" value="GO!"/>

Done Local intranet

Options List of Institutions:



New Student Entry Form:

http://localhost:8080/PVS/Institution.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Institution.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, VNR VJIE

Student Info
Employee Info
Profile Enquiry
Promotion/Demotion
Set Achievements
View Suggestions
Logout

Student Information Page

Select the Catagory :

-Select-
-Select-
First Entry
Continuity

SUBMIT

Local intranet

New Student Information page with values:

http://localhost:8080/PVS/Institution.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Institution.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, VNR VJIEET

Student Info

Employee Info

Profile Enquiry

Promotion/Demotion

Set Achievements

View Suggestions

Logout

Student's Academic Information

Candidate Name :

Father Name :

Address :

Gender :

Contacts :

Email :

Hall Ticket No :

Qualification :

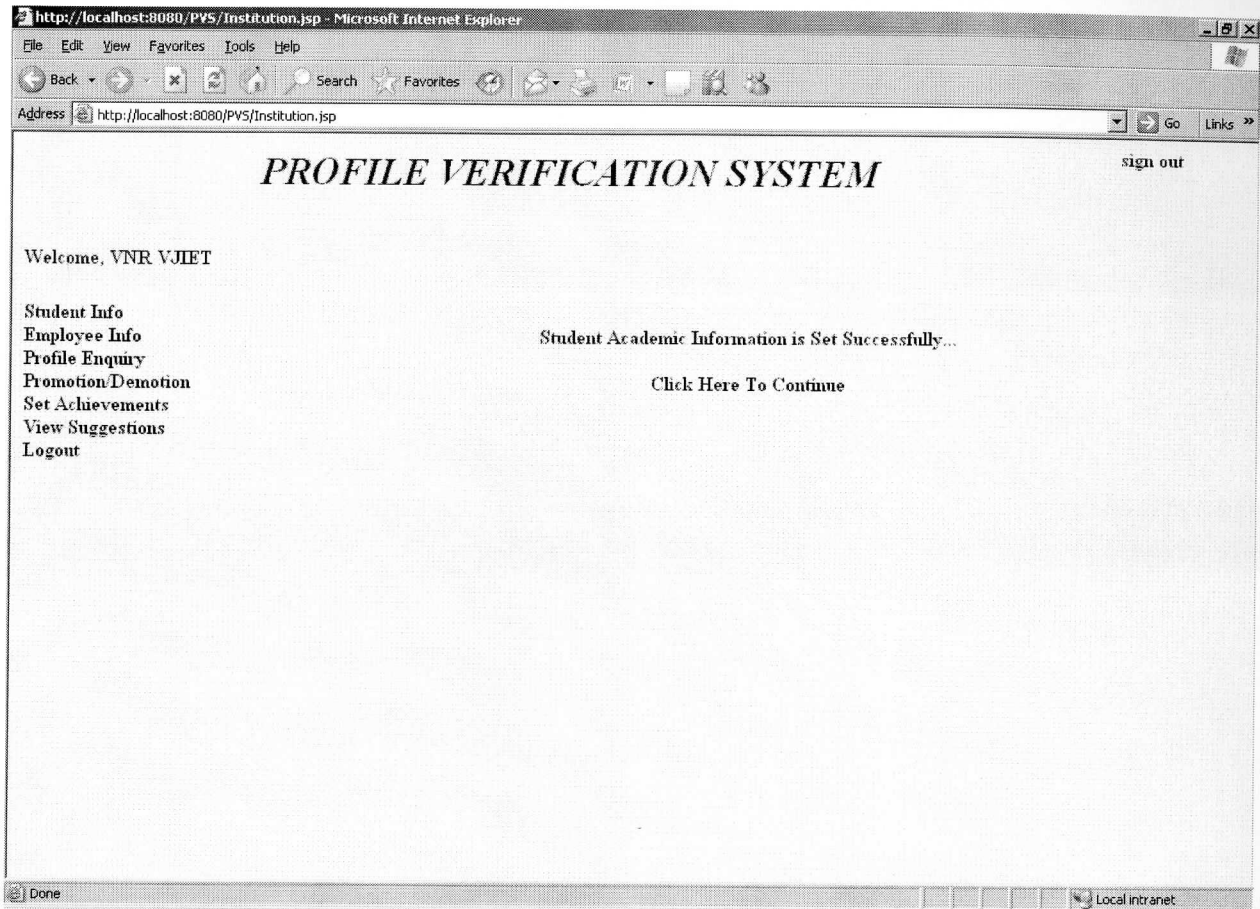
Marks Scored :

Certificate No :

University :

Passing Year :

Done Local intranet

Confirmation Message of New Student Information:

Login page with Company Information:

http://localhost:8080/PV5/index.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Stop Reload Home Search Favorites

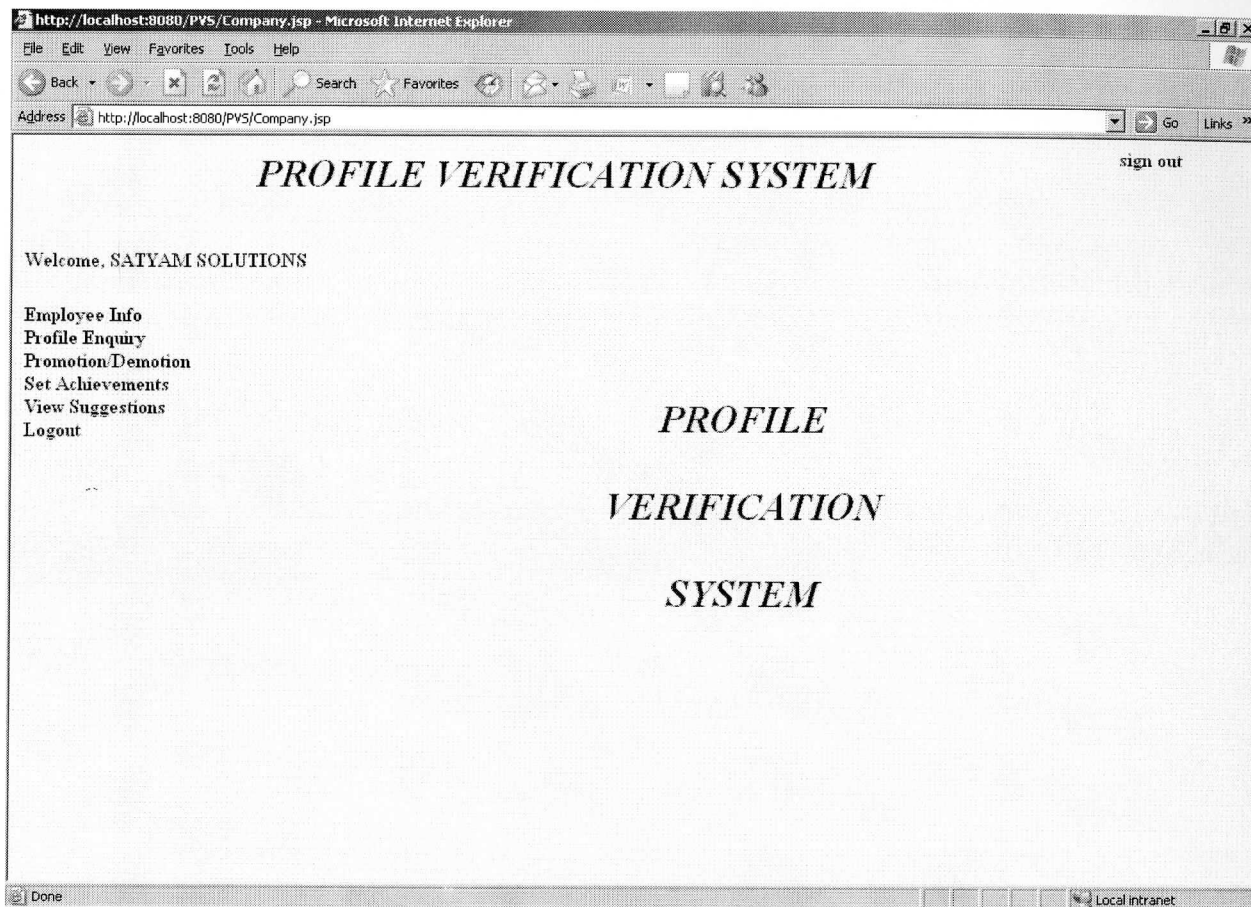
Address http://localhost:8080/PV5/index.jsp Go Links >>

PROFILE VERIFICATION SYSTEM

Search Engine

UserName :	<input type="text" value="satyam"/>
PassWord :	<input type="password" value="....."/>

Done Local intranet

Options List of Company:

Fresher Employee Recruitment Page:

The screenshot shows a Microsoft Internet Explorer window with the address bar displaying `http://localhost:8080/PVS/Company.jsp`. The page title is *PROFILE VERIFICATION SYSTEM*. In the top right corner, there is a [sign out](#) link. On the left side, a welcome message reads "Welcome, SATYAM SOLUTIONS". Below this, a navigation menu includes links for "Recruit Employee", "View Employee List", and "Back". The main heading of the page is "Employee Recruitment Page". A form section titled "Select the Catagory:" contains a dropdown menu with three options: "-Select-", "-Select-", and "Fresher" (which is currently selected). Below the dropdown is a "SUBMIT" button. The status bar at the bottom of the browser indicates "Local intranet".

PROFILE VERIFICATION SYSTEM [sign out](#)

Welcome, SATYAM SOLUTIONS

[Recruit Employee](#)
[View Employee List](#)
[Back](#)

Employee Recruitment Page

Select the Catagory :

Local intranet

Initial Information of the Candidate:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM sign out

Welcome, SATYAM SOLUTIONS

Recruit Employee
View Employee List
Back

Candidate Academic Information

Candidate Name :

Qualification :

Certificate No :

University :

Passed Year :

SUBMIT

Done Local intranet

Initial Student Page with Values:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

Recruit Employee
View Employee List
Back

Candidate Academic Information

Candidate Name :

Qualification :

Certificate No :

University :

Passed Year :

Local intranet

Employee recruitment page with loaded empno and SSN:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

Recruit Employee
View Employee List
Back

Employee Recruitment Page

Employee Number :

Employee Name :

Qualification :

Designation :

Joining Date :

Initial Salary :

SSN :

[Click Here To Continue](#)

Done Local intranet

New Employee page with Values:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

Recruit Employee
View Employee List
Back

Employee Recruitment Page

Employee Number :

Employee Name :

Qualification :

Designation :

Joining Date :

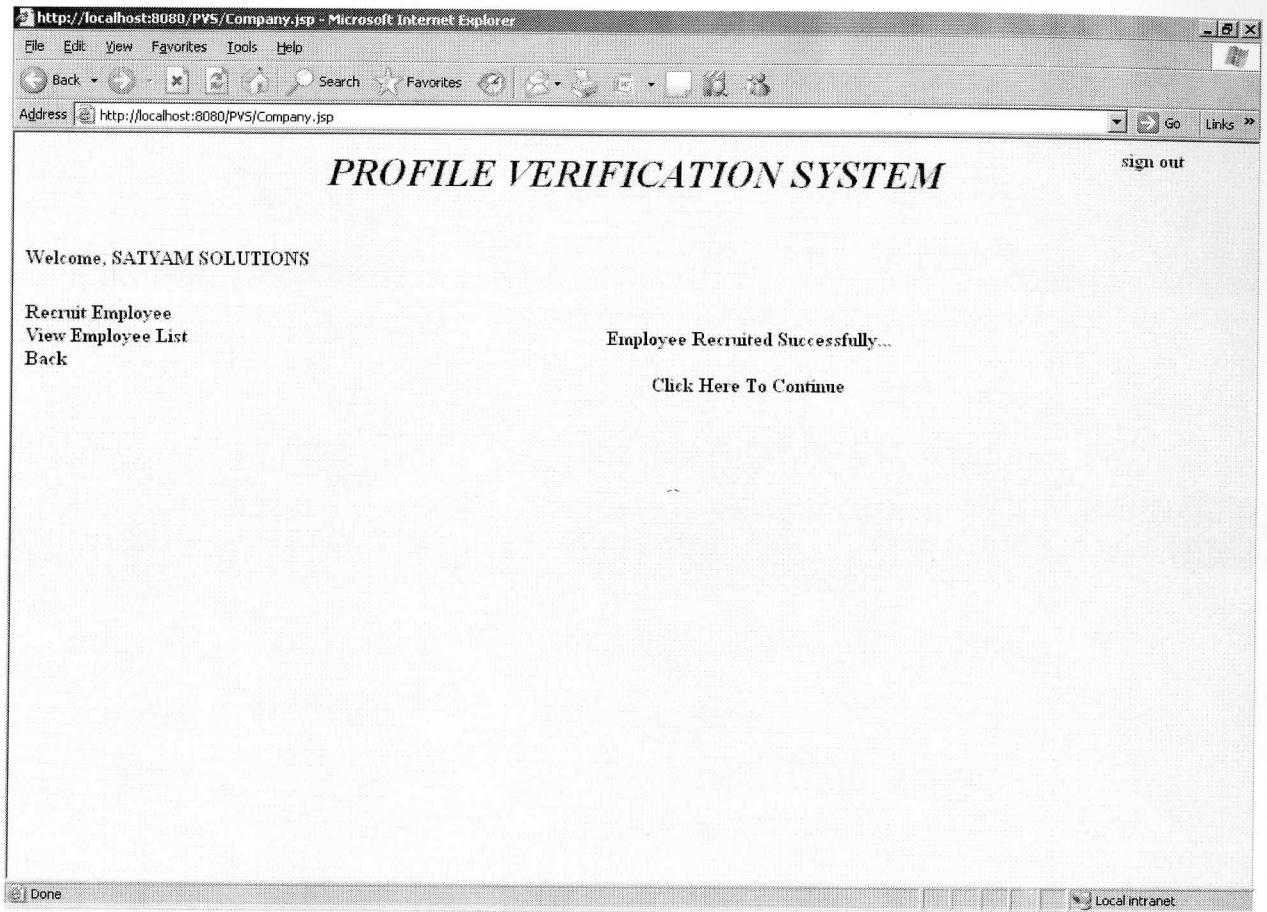
Initial Salary :

SSN :

[Click Here To Continue](#)

Done Local intranet

Confirmation of Employee Recruitment:



Employee List:

PROFILE VERIFICATION SYSTEM [sign out](#)

Welcome, SATYAM SOLUTIONS

[Recruit Employee](#)
[View Employee List](#)
[Back](#)

Employee Information

Emp No	Employee Name	Designation	Joined Date	
1001	Arun Kumar	Programmer	30-Apr-2010	Release

[Click Here To Continue](#)

Done Local intranet

Employee Promotion/Demotion Page:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

Employee Info

Profile Enquiry

Promotion/Demotion

Set Achievements

View Suggestions

Logout

Employee Promotion/Demotion Page

Emp No	Employee Name	Designation	Joined Date	
1001	Arun Kumar	Programmer	30-Apr-2010	Promotion/Demotion

Click Here To Continue

http://localhost:8080/PVS/Promotion1.jsp?no=1001 Local intranet

Employee promotion/Demotion Page with Values:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

Employee Info

Profile Enquiry

Promotion/Demotion

Set Achievements

View Suggestions

Logout

Employee Promotion/Demotion Information

Employee No :

Employee Name :

Designation :

Joined Date :

Initial Salary :

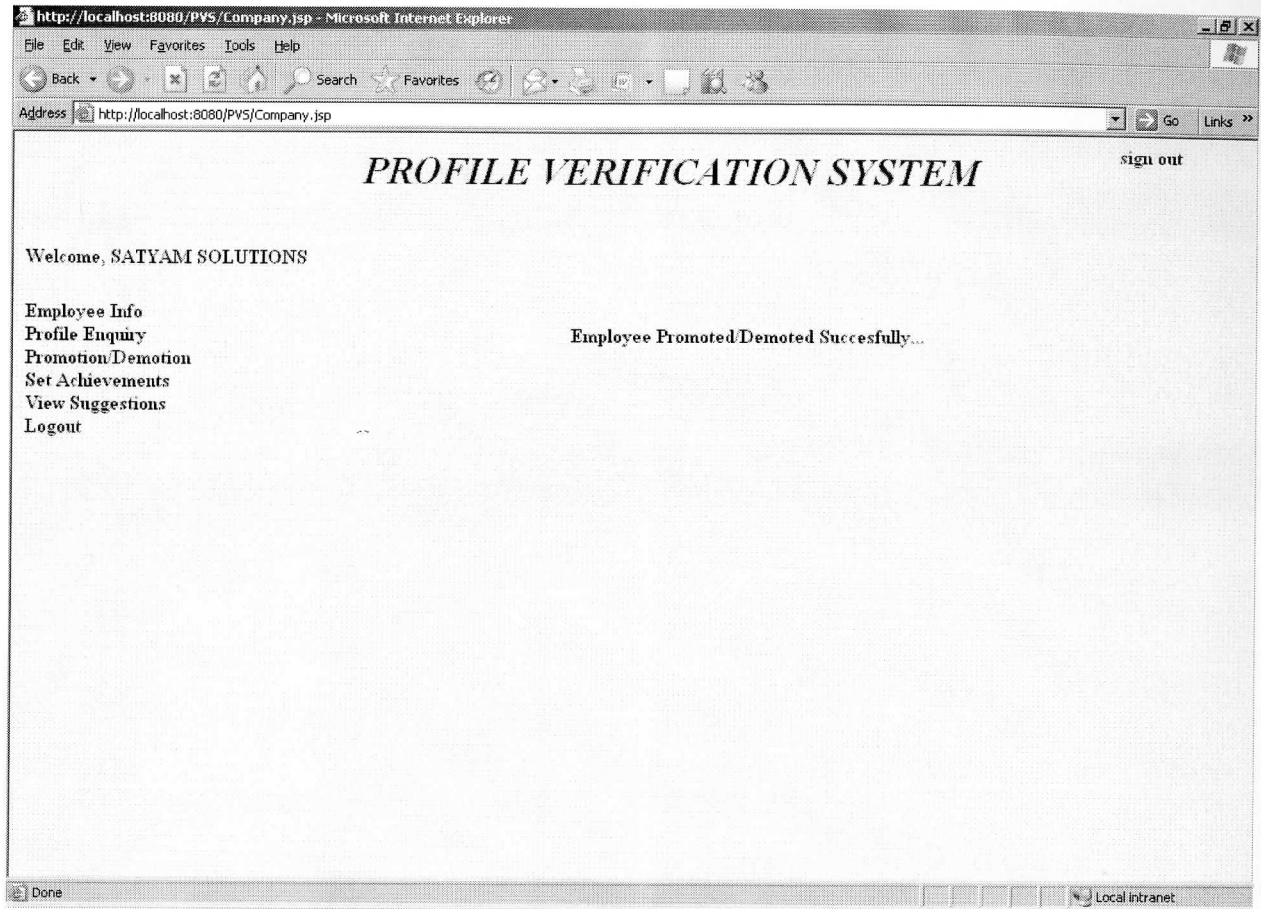
New Job :

New Salary :

Joined Date :

Done Local intranet

Confirmation for Employee Promotion:



Profile Enquiry Page:

The screenshot shows a Microsoft Internet Explorer window with the address bar displaying `http://localhost:8080/PVS/Company.jsp`. The page content is as follows:

sign out

PROFILE VERIFICATION SYSTEM

Welcome, SATYAM SOLUTIONS

[Employee Info](#)
[Profile Enquiry](#)
[Promotion/Demotion](#)
[Set Achievements](#)
[View Suggestions](#)
[Logout](#)

Profile Enquiry Page

Enter the SSN Number :

Done Local intranet

Candidate Profile Enquiry page with SSN Number:

The screenshot shows a Microsoft Internet Explorer window with the address bar displaying `http://localhost:8080/PVS/Company.jsp`. The page content is as follows:

PROFILE VERIFICATION SYSTEM sign out

Welcome, SATYAM SOLUTIONS

Profile Enquiry Page

Employee Info
Profile Enquiry
Promotion/Demotion
Set Achievements
View Suggestions
Logout

Enter the SSN Number :

The browser's status bar at the bottom shows "Done" and "Local intranet".

Profile information page for specified SSN:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

Address http://localhost:8080/PVS/Company.jsp

PROFILE VERIFICATION SYSTEM [sign out](#)

Welcome, SATYAM SOLUTIONS

Employee Info
 Profile Enquiry
 Promotion/Demotion
 Set Achievements
 View Suggestions
 Logout

Candidate Profile Information

Personal Information
 Candidate Name : Arun Kumar
 Father Name : Sachin
 Address : Secunderabad
 Gender : Male
 Contacts : 9999900000
 Email : arun@gmail.com

Academic Information

Hall Ticket No	Qualification	Percentage	Certi. No	University	Passing Year	College
123456	MCA	90	AB1122	JNTU	2010	VNR VJJET

Career Information

CID	CName	Emp No	Job	DOJ	Starting Salary	DOR	Releaving Salary	Status	Rea
10004	SATYAM SOLUTIONS	1001	Programmer	2010-04-30	15000.0	2010-04-30	20000.0	Worked	Promotion

Done Local intranet

Set Achievement Page:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

[Employee Info](#)
[Profile Enquiry](#)
[Promotion/Demotion](#)
[Set Achievements](#)
[View Suggestions](#)
[Logout](#)

Company Achievements Information

SI No:

Achievement :

Registration Date :

Local intranet

Set Achievement Page with values:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

[Employee Info](#)
[Profile Enquiry](#)
[Promotion/Demotion](#)
[Set Achievements](#)
[View Suggestions](#)
[Logout](#)

Company Achievements Information

SI No:

Achievement :

Registration Date :

Local intranet

View Suggestions page:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

- Employee Info
- Profile Enquiry
- Promotion/Demotion
- Set Achievements
- View Suggestions
- Logout

Company Achievements Information

SNo	Description	Entry Date	Suggestion
4	sadfafsfasfadsf	30-Apr-2010	

Click Here To Continue

Local intranet

Employee Release Page:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

sign out

PROFILE VERIFICATION SYSTEM

Welcome, SATYAM SOLUTIONS

[Recruit Employee](#)
[View Employee List](#)
[Back](#)

Employee Information

Emp No	Employee Name	Designation	Joined Date	
1001	Arun Kumar	Project Leader	30-Apr-2010	Release

[Click Here To Continue](#)

http://localhost:8080/PVS/Release.jsp?no=1001 Local intranet

Employee Release page with Values:

http://localhost:8080/PVS/Company.jsp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:8080/PVS/Company.jsp Go Links

PROFILE VERIFICATION SYSTEM

sign out

Welcome, SATYAM SOLUTIONS

Recruit Employee
View Employee List
Back

Employee Releasing Information

Employee No :

Employee Name :

Designation :

Joined Date :

Initial Salary :

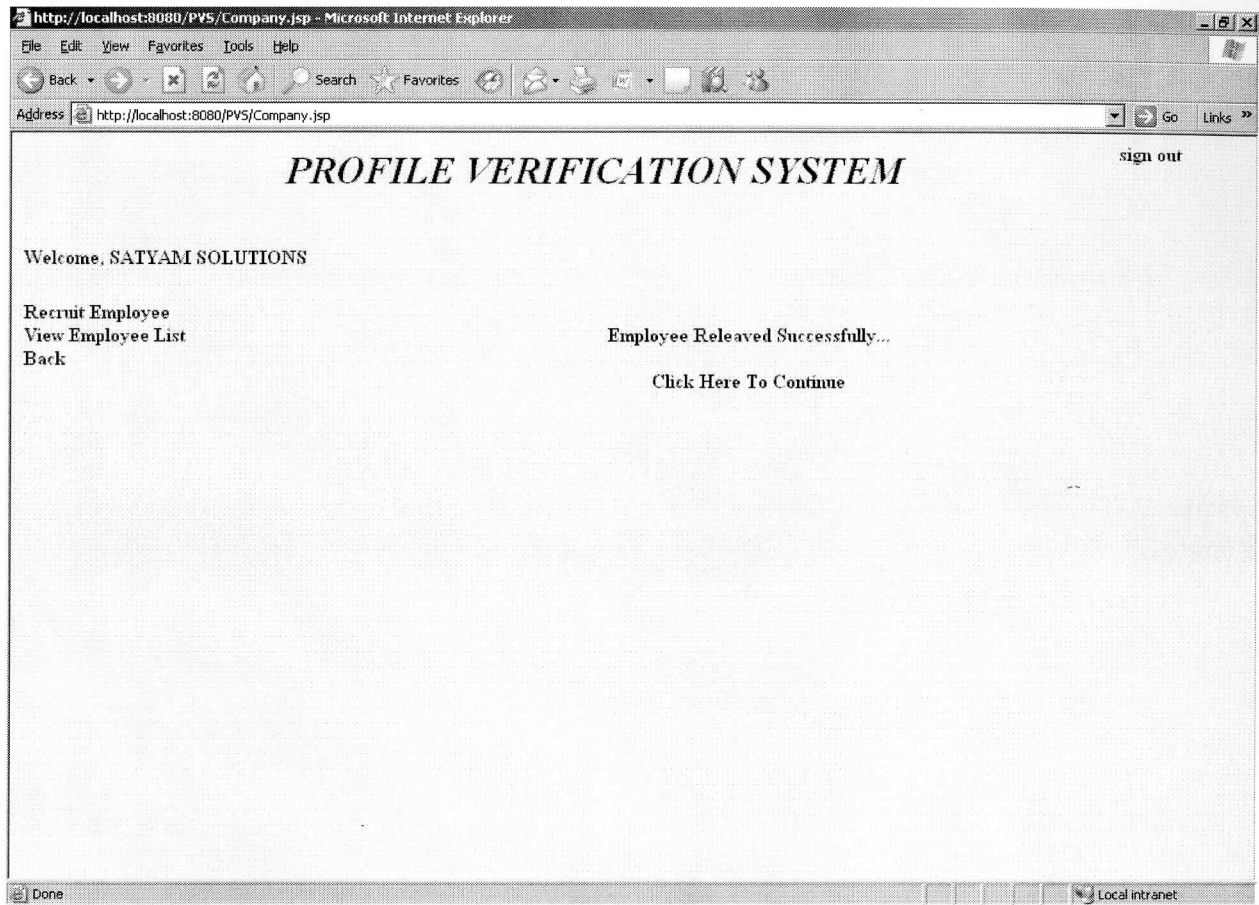
Releasing Salary :

Reason :

RELEASE EMPLOYEE

Done Local intranet

Confirmation Message for Employee Releasing:



Search Engine page with Search Criteria:

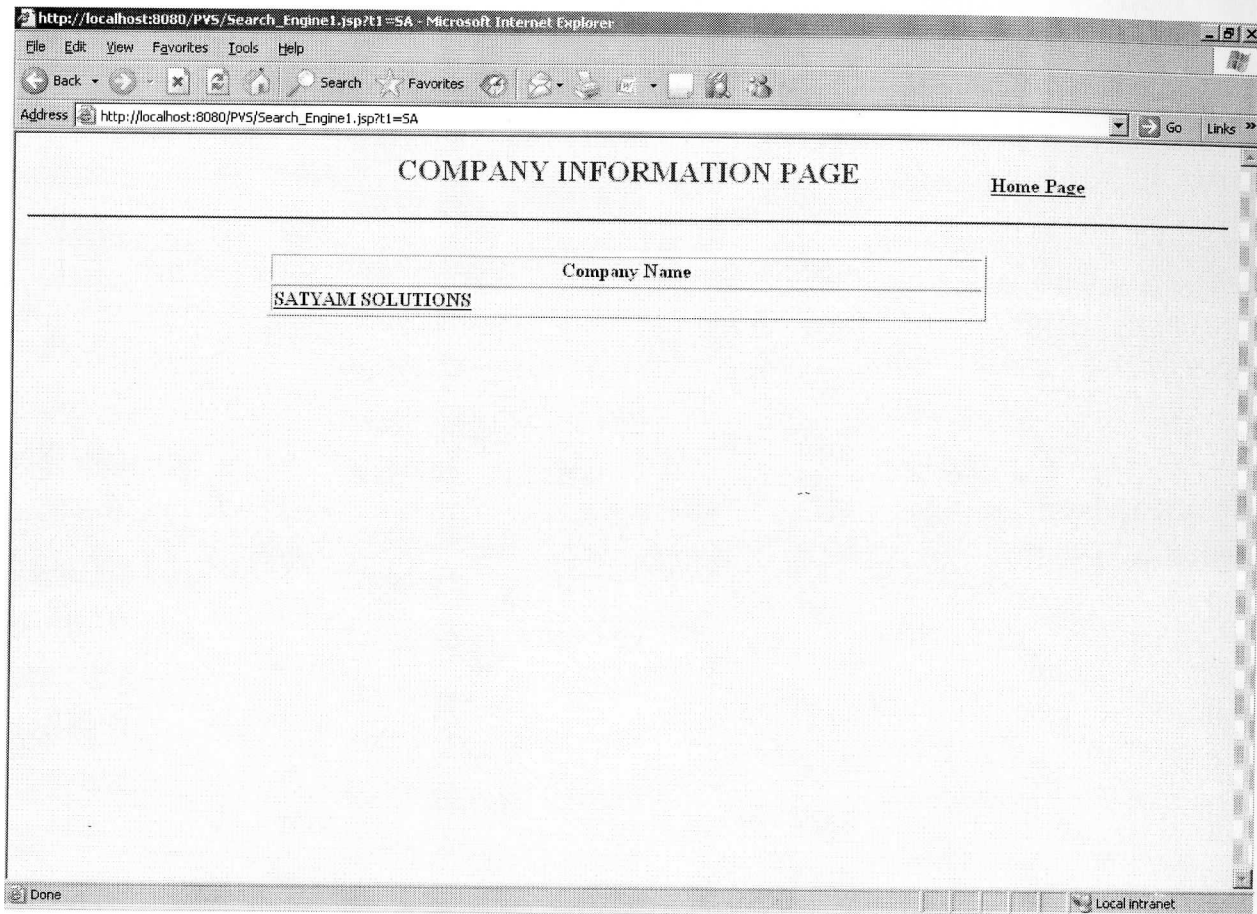
The screenshot shows a Microsoft Internet Explorer window with the address bar displaying `http://localhost:8080/PVS/Search_Engine.jsp`. The page title is "SEARCH ENGINE FOR COMPANY INFORMATION". In the top right corner, there is a link labeled "Home Page". The main content area features a search form with the label "Enter the Company Name Criteria" followed by a text input field containing the text "SA" and a "Search" button. The status bar at the bottom indicates "Done" and "Local Intranet".

SEARCH ENGINE FOR COMPANY INFORMATION

[Home Page](#)

Enter the Company Name Criteria SA Search

Done Local Intranet

Search Engine page with Search List:

Information of Searched Company:

http://localhost:8080/PVS/Search_Engine2.jsp?cid=SATYAM SOLUTIONS - Microsoft Internet Explorer

Address http://localhost:8080/PVS/Search_Engine2.jsp?cid=SATYAM%20SOLUTIONS

COMPANY INFORMATION PAGE

[Home Page](#)

Company Name : SATYAM SOLUTIONS
 Address : Hyderanad
 Work Mode : Training & Development
 Contacts : 9099000900
 Regd. Date : 30-Apr-2010
 Regd. No : 10004
 Currendy Working Staff : 0

Company Acheivements

SINO.	Achievement	Entry Date
4	sadfafdsfasfadsf daf	30-Apr-2010

Done Local intranet

5. TESTING

5.1 Introduction

Testing is the process of detecting errors for which the required open web application secure employment portal specifications stated. The aim of testing is often used to demonstrate that a program works by showing that it has no errors. Hence one should not start testing with the intent of showing that a program works, but the intent should be to show that a program doesn't work. The main objective of testing is to uncover an error in systematic way with minimum effort and time.

5.2 Types of testing

The different types of testing are:

- Unit testing
- Integration testing
- System testing
- Acceptance testing.

5.2.1 Unit testing

This test focuses on verification effort on the smallest unit of software module. Using the detailed design and the process specifications testing is done to uncover errors within the boundary of the module. In this project each service is a module like Login, Forms etc. Each module has to be tested by giving different sets of inputs. The inputs are validated when accepting from user.

5.2.2 Integration testing

After the unit testing the integration of modules has to be done and then integration testing can be done. The goal here is to see if modules can be integrated properly, the emphasis being on testing interfaces between different modules.

5.2.3 System Testing

In the system testing the entire web portal is tested according the software requirement specifications document.

5.2.4 Acceptance testing

The acceptance testing is performed with realistic data of the client, which focus on the external behavior of the system; Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding.

6. CONCLUSION AND FUTURE ENHANCEMENTS

Conclusion

The application can be used in various countries to track an individual and his employment details. It not only caters to the citizen's of that country but also to foreign nationals undertaking jobs in that country. The immigration department can also verify the expiry of Job visa's for such individuals.

Future Enhancements

- The application can be implemented in various types of companies to track an individual and his employment details.
- This System can be given access to the Police and CBI for investigation purpose.
- It can be also used by the Government Authorities like Passport Authority for verification.

7. REFERENCES

- www.w3schools.com
- www.java2s.com
- www.techonthenet.net

- Java complete reference by Herbert Schildt.
- Java Server Pages by Hans Bergsten.